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A TRUSTEE OF THE MUSEUM AND PATRON OF THE
SIMPSON-ROOSEVELT EXPEDITION, 1925-1926.

FIELD MUSEUM OF NATURAL HISTORY

PUBLICATION 235

REPORT SERIES

VOL. VI, No. 5

ANNUAL REPORT OF THE
DIRECTOR

TO THE
BOARD OF TRUSTEES

FOR THE YEAR 1925



CHICAGO, U. S. A.

January, 1926

PRINTED IN THE UNITED STATES OF AMERICA
BY FIELD MUSEUM PRESS

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BEQUESTS

Bequests to Field Museum of Natural History may be made in securities, money, books or collections. They may, if desired, take the form of a memorial to the memory of a person or cause, to be named by the giver. For those desirous of making bequests to the Museum, the following form is suggested:

FORM OF BEQUEST

I do hereby give and bequest to "Field Museum of Natural History" of the City of Chicago, State of Illinois, _____

Cash contributions made within the taxable year to Field Museum of Natural History to an amount not in excess of 15% of the taxpayer's net income are allowable as deductions in computing net income under the Revenue Law.

Endowments may be made to the Museum with the provision that an annuity be paid to the patron during his or her lifetime. These annuities are tax-free and are guaranteed against fluctuation in amount.

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ANNUAL REPORT OF THE DIRECTOR

1925

To the Trustees of Field Museum of Natural History:

I have the honor to present a report of the operations of the Museum for the year ending December 31, 1925.

Throughout the year, the Museum has so maintained its activities that public attendance has been notably increased. Frequent mention in the public press of the progress of the Institution and of its expeditions, researches and accessions has doubtless been of much aid in increasing popular interest and attendance. This interest has, in turn, served to stimulate the members of the scientific and administrative staff to more strenuous efforts.

As is indicated in the following report, the activities and functions of the Museum are ever widening. This is especially true in the advancement of educational work. During the period under review an additional extramural program has been inaugurated which provides for assigning lecturers from the Museum to various parts of the city. On account of the addition of this and other educational and research programs to the activities of the Museum the year's budget shows a deficit of \$35,806.01. Although the Museum has received memorable contributions to its endowment for the purpose of defraying the cost of its enhanced activities, income from these sources is not as yet available. Moreover, despite the increased income provided by the South Park Commissioners from the tax levy, it does not suffice to meet the actual cost of maintenance.

The hearty appreciation by the public of the enlarged activities of the Museum has produced a demand for service greater than can be met with the present endowment. With an increased endowment, more entertainment for adults, enlarged facilities for children and students, and a very desirable extension of the educational program to include, specifically, the foreign born, could be provided.

The largest single gift received by the Museum during the year was that of Mrs. Anna Louise Raymond, consisting of an endowment of \$500,000 and creating a memorial to her husband, the late James Nelson Raymond. The purpose of this fund is indicated in its name, "The James Nelson and Anna Louise Raymond Public School and Children's Lecture Fund." The income from this endowment is paid as an annuity

during her lifetime to Mrs. Raymond. Annuities on endowments of this nature to the Institution are exempt from income tax levies and are also guaranteed against fluctuation in amount. An exhibition hall has been named James Nelson and Anna Louise Raymond Hall to commemorate this gift.

Securities to the value of \$100,000 were transferred to the Museum by Miss Kate Buckingham, who receives as an annuity the interest on her gift. By action of the Board of Trustees, an exhibition hall has been named in memory of the late Clarence Buckingham.

The conception of the James Simpson-Roosevelt Asiatic Expedition to the Himalayas, the Pamirs and Turkestan for zoological specimens lay with the Messrs. Roosevelt, Theodore and Kermit, who undertook to furnish their services without remuneration. They were accompanied by the naturalist, Mr. George K. Cherrie, and by Mr. Suydam Cutting, a volunteer photographer. The expedition was conducted under the patronage of Mr. James Simpson. According to cable reports, the hunters have met with great success, having secured, among other large mammals, eight specimens of the rare Marco Polo's sheep. Numerous birds, reptiles and small mammals are also mentioned in reports.

A contribution of \$125,000 was received from Mr. Ernest R. Graham, a portion of which, supplemented by an additional \$12,000 from President Stanley Field, was used for the purchase of the Egyptian collections made by Professor James H. Breasted. These collections include 580 textiles, 10 bronzes, 154 pieces of alabaster and one black granite statue, representing the architect Senmut. The hall containing the Egyptian collection has been named Ernest R. Graham Hall.

Other contributions made by President Field were: \$8,000 toward the deficit in the operating budget for 1925; \$51,629.50 as a further gift toward the building fund deficit; the purchase of the skins of the Man-Eaters of Tsavo, now on display, mounted; and, together with Messrs. Henry J. Patten and Charles B. Pike, the gift of the Gunther ethnological and ethnographical collection. President Field also contributed \$14,300 toward the Stanley Field Plant Reproduction Fund, of which he is the exclusive patron.

The Captain Marshall Field annuity of \$100,000 continues to enable the Museum to extend its expeditionary program and to widen the scope of its publications. Most of the expeditions sent out by the Museum during the year were partly or wholly indebted to this fund. A new series of publications, the Technique Series, dealing with museum practice, both administrative and scientific, was inaugurated, two numbers being issued.

Late in the year, Captain Marshall Field announced his intention to present to the Museum a series of twenty-six sculptures of prize British domestic animals for exhibition in the Department of Zoology. These sculptures are the work of the well-known English sculptor, Herbert Haseltine.

Mr. Richard T. Crane, Jr., gave \$30,000 to the Museum for the purchase of an admirable set of three life-size groups, cast in bronze, portraying native Africans engaging in lion spearing. These bronzes are the work of the noted sculptor and taxidermist, Carl E. Akeley.

"The Chronicles of America," a series of thirty-four motion picture films, totalling one hundred reels, devoted to American history issued by the Yale University Press, was the gift of Mr. Chauncey Keep in memory of his son, Henry Blair Keep, who lost his life in the World War. These films have already been shown in a children's series and in a series of entertainments for foreign born citizens.

The generous contributions of Mr. Edward E. Ayer to the ornithological library and the pewter collection which bear his name and to the general zoological library, were continued throughout the year, many rare and valuable additions being made.

A collection of 160 rhinoceros-horn libation cups was presented by Mr. John J. Mitchell through the instrumentality of Mr. Ayer. These cups are of particular interest because of the former belief that cups made of this material neutralized poison and rendered the drinker safe from assassination in that manner.

Mr. William J. Chalmers continued his annuity for the upkeep and growth of the William J. Chalmers Crystal Collection.

A collection containing 38,731 eggs has been deposited with the Museum by Judge R. Magoon Barnes, Assistant Curator of Oology. Judge Barnes will continue to share responsibility with the Museum for the growth and care of this collection during his lifetime, after which it will pass into the sole ownership of the Museum.

The first use of the fund provided by Mr. Julius Rosenwald and Mrs. Augusta N. Rosenwald was to defray the expenses of an ethnological expedition among the Sauk, Fox, Winnebago and Potawatomi Indians. Mr. M. G. Chandler who undertook this expedition, secured many valuable specimens, reference to which is made elsewhere.

The membership campaign has continued to be effective; a considerable portion of the greatly increased membership being attributable to the growth in the Museum's activities.

The additions to the staff during the year included the appointment of Dr. A. L. Kroeber as Research Associate in American Archeology,

the appointment of Mr. Sharat K. Roy as Assistant Curator in Invertebrate Paleontology and the employment of a third guide-lecturer. The resignations of Miss Helen C. Gunsaulus, Assistant Curator of Japanese Ethnology, and Mr. Charles L. Owen, Assistant Curator of Archeology, are announced.

In appreciation of their valuable services to science: Mr. Chauncey Keep, Mr. Richard T. Crane, Jr., Mr. Julius Rosenwald and Mrs. Augusta N. Rosenwald were elected Honorary Members of the Museum; Mr. Silas H. Strawn, Mr. Theodore Roosevelt, Mr. Kermit Roosevelt and Mr. Frederick C. Hack were elected Patrons of the Museum.

Maintenance and improvement in the Museum building received their proper attention during the year. Among the improvements may be mentioned the construction of improved cases for the storage of specimens in various departments and the covering of the skylights in the Department of Botany Library and in the Edward E. Ayer Library. Thirty-four new exhibition cases were built and installed. New bookshelves and other library furniture were installed in the Department of Anthropology Library. Twenty-four large curtain walls were built and installed in the zoological exhibition halls. Iron railing was built around a number of exhibits, 420 feet of railing being installed.

Grateful acknowledgement is made to the Clyde W. Riley Advertising System for the use during the year of a page in the programs of the theatres of Chicago, and to the transportation companies for the exhibition of posters.

LECTURES AND ENTERTAINMENTS

GENERAL LECTURES.—The Forty-third and Forty-fourth Free Lecture Courses of Field Museum of Natural History were given in the James Simpson Theatre on Saturday afternoons during the Spring and Autumn months. Occasion is here taken to thank the scientists and explorers who participated in these courses. They were welcomed by appreciative audiences. Following are the programs for both courses:

February 28—"Birds of Field, Forest and Garden."

Dr. G. Clyde Fisher, American Museum of Natural History, New York.

March 7—"Mexico."

Mr. Frederick Monsen, Pasadena, California.

March 14—"Over the Higher Yosemite Trails."

Mr. Ford Ashman Carpenter, Los Angeles, California.

- March 21—"Seal Hunting off the Coast of Newfoundland and Labrador."
Captain Robert A. Bartlett, Washington, D. C.
- March 28—"Music of Primitive People."
Mr. Henry Purmort Eames, Chicago.
- April 4—"Great Mountains and Strange Corners of the Orient."
Mr. Richard Halliburton, Memphis, Tennessee.
- April 11—"Java and its People" (Arthur B. Jones Expedition, 1923).
Dr. Fay-Cooper Cole, Leader of the Expedition.
- April 18—"Bird Manor—(Home Life of Wild Birds)."
Mr. T. Walter Weiseman, Pittsburgh, Pennsylvania.
- April 25—"Trail Riders of the Rockies."
Colonel Philip Moore, Department of Public Instruction, Washington, D. C.
- October 3—"Hunting the Extinct Animals of Patagonia."
Mr. Elmer S. Riggs, Associate Curator of Paleontology, Field Museum of Natural History.
- October 10—"The Australian Bush."
Captain Kilroy Harris, Cleveland, Ohio.
- October 17—"Wild Animals in Captivity."
Mr. George F. Morse, Jr., Chicago.
- October 24—"The Maya, the Greeks of the New World."
Dr. Sylvanus G. Morely, Carnegie Institution, Washington, D. C.
- October 31—"Old Indian Trails."
Mr. Walter McClintock, Pittsburgh, Pennsylvania.
- November 7—"Life and Industries of Native Tribes of Central West Africa."
Dr. Amandus Johnson, Philadelphia, Pennsylvania.
- November 14—"Educational Work in the National Parks—Present Development and Possibility for the Future."
Hon. Stephen T. Mather, Director of National Parks, Washington, D. C.
- November 21—"Mesopotamia."
Dr. Edward Chiera, in Charge of the American School of Oriental Research in Baghdad.
- November 28—"Lapland."
Dr. G. Clyde Fisher, American Museum of Natural History, New York City.

In addition to the announced courses, the following special lectures were delivered during the year:

February 14—"Hunting and Collecting in Many Lands."

Mr. Kermit Roosevelt.

February 15—"The River of Doubt."

Mr. Kermit Roosevelt.

March 1—"My Winter in North Greenland."

Captain Donald B. MacMillan.

December 5—"In Search of the Unknown."

Captain Donald B. MacMillan.

December 6—"In Search of the Unknown."

Captain Donald B. MacMillan.

December 19—"Indian Life in Song and Story."

Mr. A. T. Freeman (Gai-i-wah-go-wah).

December 20—"From the Sargasso Sea to the Galapagos."

Mr. William Beebe.

AMERICANIZATION PROGRAMS.—In July, 1925, Mr. Chauncey Keep presented the Museum with the Yale University Press Chronicles of American Photoplays as a memorial to his son, Henry Blair Keep, who lost his life in the World War. The completed series will bring the Museum thirty-four historical motion pictures totaling one hundred reels. At present, fifteen subjects have been made and are lodged in the Museum's vaults. The others will follow as soon as they are released by the Yale University Press. The ownership of these films made it possible for the Museum, with the cooperation of the Citizenship Committee of the Chicago Council of Social Agencies, to join definitely in Chicago's Americanization work; and it did so by arranging two series of American history motion pictures which were shown in the James Simpson Theatre on Sunday afternoons throughout the Autumn. Following is the program for the first course:

September 20—"Columbus."

"Jamestown."

September 27—"The Pilgrims."

"The Puritans."

October 4—"Peter Stuyvesant."

"The Gateway to the West."

"Wolfe and Montcalm."

October 11—"The Eve of the Revolution."

"The Declaration of Independence."

- October 18—"Vincennes."
"Daniel Boone."
"The Frontier Woman."
October 25—"Yorktown."
"Alexander Hamilton."

The second Sunday afternoon course (November 1 to December 13, omitting December 6) repeated this program. The Americanization courses proved most popular, capacity audiences attending them.

ENTERTAINMENTS FOR CHILDREN.—Two series of entertainments for children were given in the James Simpson Theatre. The Spring course was composed of a series of motion pictures on natural history, travel and industries, with one lecture and one introductory talk as special events. The Autumn course combined the Chronicles of America Photoplays (see Americanization Programs) with natural history subjects in a series of fourteen programs. In connection with both courses, Museum Stories for Children were prepared by the guide-lecturers and distributed at each entertainment. Twenty-three stories in editions of from 2000 to 3000 each were so distributed and many additional copies were used as reference material in the schools. Capacity audiences attended the entertainments, the programs for which follow:

- February 28—10:30 a.m. A lecture: "Wild Animals Near Home."
Dr. G. Clyde Fisher, American Museum of Natural History, New York City.
9:30 and 11:30 a.m. Moving Pictures: "The Four Seasons."
March 7—"The Story of Beginnings."
March 14—*—"Beyond the Snow Line."
Introductory talk by Dr. A. S. Johnson.
†—"Elephant Seals."
March 21—"Animal Athletes."
"Feathered Fishermen."
"Mysteries of Prehistoric Indians in Yucatan."
"A Goldfish Story."
"The Kindly Fruits of Earth."
March 28—"The Hare and the Tortoise."
"Friends of Man."
"Steel: From Iron Ore to Rails."

*†Grateful acknowledgment is made to Doctor A. S. Johnson for the loan of motion pictures marked with an asterisk and to Mrs. Keith Spalding for the gift of motion pictures marked with a dagger.

- "Johanna, an Untrained Chimpanzee."
 "Pirates of the Air."
- April 4—"The Story of Bedouin Life in the Desert."
 April 11—"From Caves to Skyscrapers."
 "The Lion and the Fly."
 "Peculiar Pets."
 "The Science of a Soap-bubble."
- April 18—"Bobbie's Ark."
 "Experiments with Sulphur."
 "The Silver Salmon."
 "Spirit Wrestlers."
 "Bears."
- April 25—"Little People of the Garden."
 "Little People of the Sea."
 "The Last Stand of the Red Man."
 "The Grasshopper and the Ant."
- September 19—"Columbus."
 "In the Land of the Incas."
- September 26—"Jamestown."
 "Skyland."
- October 3—"The Pilgrims."
 "Out of the Sea."
 "Animal Vegetarians."
- October 10—"The Puritans."
 "Gems."
 "Water Babies."
- October 17—"Peter Stuyvesant."
 "Trout."
 "Willing Captives."
- October 24—"The Gateway to the West."
 "Time."
 "Sea Lions."
- October 31—"Wolfe and Montcalm."
 "The Unselfish Shell."
 "America's Granary."
- November 7—"The Eve of the Revolution."
 "The Apache Trail."
 "Six-legged Friends."



GRANITE STATUE OF THE ARCHITECT SENMUT.

EGYPT, ABOUT 1500 B.C.

One-third actual size.

PRESENTED BY MR. ERNEST R. GRAHAM.

- November 14—"The Declaration of Independence."
 "Birds and Flowers."
 "Handling Animals in the Zoo."
- November 21—"Vincennes."
 "The Petrified Forest."
 "Furs and Feathers."
- November 28—"Daniel Boone."
 "The Butterfly."
 "A Glimpse into the Animal Kingdom."
- December 5—"The Frontier Woman."
 "Alligators."
 "Birds of Crags and Marshes."
- December 12—"Yorktown."
 "Feathers."
 "Hoofs and Horns."
- December 19—"Alexander Hamilton."
 "Seminole Indians."
 "Beetle Studies."

RADIO TALKS.—At various times, through the cooperation of the Chicago Daily News Station WMAQ talks by members of the Museum staff were broadcast by radio. The majority of the programs given over WMAQ were "Radio Photologues," accompanied by rotogravure illustrations in the Saturday editions of the Chicago Daily News. Two programs were given through Sears-Roebuck & Company, Station WLS. Following is the list for the year:

- January 28—WLS, "The Sacrifice of a Captive Maiden by the Pawnee Indians."
 Mrs. Dorothy Cockrell.
- February 7—WMAQ, "The Harris Extension of Field Museum of Natural History."
 Mr. S. C. Simms.
- June 20—WMAQ, "Brazil."
 Dr. O. C. Farrington.
- June 25—WMAQ, "Hunting Prehistoric Animals."
 Mr. E. S. Riggs.
- July 11—"Head Hunters of the Philippines."
 Mr. S. C. Simms.
- July 18—WMAQ, "Fur Seals of Alaska."
 Dr. W. H. Osgood.

- July 25—WMAQ, "Ontario Gold."
Dr. H. W. Nichols.
- August 1—WMAQ, "The Lower Texas Border."
Mr. A. C. Weed.

(This talk was repeated over KWWG, the Brownsville, Texas, Chamber of Commerce Station, about October 31.)

- August 8—WMAQ, "The Roof of South America."
Mr. C. C. Sanborn.
- August 15—WMAQ, "The Andes of Peru."
Mr. J. F. Macbride.
- August 22—WMAQ, "The Thousand Islands off Florida."
Dr. B. E. Dahlgren.
- August 29—WMAQ, "Kish."
Professor E. A. Henry.
- September 5—WMAQ, "Polynesia."
Dr. Ralph Linton.
- September 30—WLS, "Field Museum."
Mr. H. E. Wheeler.
- October 30—WMAQ, "Hunting Extinct Animals of Patagonia."
Mr. E. S. Riggs.

PUBLICATIONS

Two new series of publications were inaugurated during the year, the Technique Series and Anthropology, Memoirs. In the Technique Series it is planned to embrace the subject of museology, dealing with museum methods and practices, both administrative and scientific. Two numbers in this series were published during the year. In Memoirs is being published the results of anthropological expeditions of especial merit and permanent value. One number has been published in this series.

In the regular publication series, eleven publications have been issued, seven of them being of the Zoological Series. In the Design Series two publications were issued. Six numbers were added to the general leaflet series.

Following is a list of the publications and leaflets issued during the year:

- Pub. 224—Zoological Series, Vol. XIV, No. 3. The Brains of the South American Marsupials *Caenolestes* and *Orolestes*. By Jeanette Brown Obenchain. January, 1925. 59 pages. 4 halftones, 9 zinc etchings.

- Pub. 225—Botanical Series, Vol. IV, No. 3. The Taxonomy of Poison Ivy, with a note on the Origin of the Generic Name. By James B. McNair. March, 1925. 23 pages, 11 zinc etchings.
- Pub. 226—Zoological Series, Vol. XV, Part II. The Marine Fishes of Panama. By S. E. Meek and S. F. Hildebrand. April, 1925. 385 pages. 46 halftones.
- Pub. 227—Report Series, Vol. VI, No. 4. Annual Report of the Director for the year 1924. January, 1925. 119 pages. 16 photogravures.
- Pub. 228—Zoological Series, Vol. XII, No. 8. Two New Birds from Peru. By John T. Zimmer. May, 1925. 12 pages.
- Pub. 229—Zoological Series, Vol. XII, No. 9. The Long-clawed South American Rodents of the Genus *Notiomys*. By W. H. Osgood. October, 1925. 16 pages. 1 halftone.
- Pub. 230—Zoological Series, Vol. XII, No. 10. New Coral Snakes from Peru. By Karl P. Schmidt and F. J. W. Schmidt. October, 1925. 8 pages. 3 halftones.
- Pub. 231—Botanical Series, Vol. IV, No. 4. South American Plants. By J. Francis Macbride. June, 1925. 20 pages.
- Pub. 232—Geological Series, Vol. IV, No. 4. On the Head of the Macropetalichthyids. By Erik A:son Stensiö. October, 1925. 114 pages. 10 halftones, 13 photogravures, 10 zincs, 7 colored plates.
- Pub. 233—Zoological Series, Vol. XII, No. 11. A Review of the Fishes of the Genus *Signalosa*. By Alfred C. Weed. October, 1925. 12 pages.
- Pub. 234—Zoological Series, Vol. XIII, Part. 4. Catalog of Birds of the Americas. Initiated by Charles B. Cory. Continued by Charles E. Hellmayr. December 29, 1925. 390 pages, 1 colored plate.

ANTHROPOLOGY, MEMOIRS

- Vol. I, No. 1. Report on the Excavation of the "A" Cemetery at Kish, Mesopotamia. Part I. By Ernest Mackay with preface by Stephen Langdon. 1925. 64 pages, quarto size, 20 plates.

DESIGN SERIES

- Anthropology, Design Series No. 3. Chinese Baskets. By Berthold Laufer. 38 photogravures and preface of two pages, in carton. Edition 1500.

- Anthropology, Design Series No. 4. Decorative Art of New Guinea.
By Albert Buell Lewis. 1 photogravure, preface of two pages and
52 plates. Edition 3000.

LEAFLETS

- Anthropology, No. 21. Ivory in China. By Berthold Laufer. 10
photogravures. 78 pages. Edition 1619.
Anthropology. Index to Tobacco Leaflets. By B. Laufer, A. B. Lewis,
R. Linton and J. A. Mason. 8 pages. Edition 546.
Anthropology. Index to Japanese Leaflets. By Helen C. Gunsaulus.
7 pages. Edition 543.
Botany, No. 11. Common Trees. By J. Francis Macbride. 2 photo-
gravures. 43 halftones. 44 pages. Edition 6010.
Geology, No. 5. Soils. By Henry W. Nichols. 6 photogravures. 13
pages. Edition 3060.
Geology, No. 6. The Moon. By Oliver C. Farrington. 2 photogravures.
13 pages. Edition 3055.
Geology, No. 7. Early Geological History of Chicago. By Henry W.
Nichols. 4 photogravures. 6 maps in color. 6 halftones. 30 pages.
Edition 3048.
Zoology, No. 7. The Man-Eating Lions of Tsavo. By Lieutenant-
Colonel J. H. Patterson, D.S.O. 6 halftones. One map. 40 pages.
Edition 6000.

TECHNIQUE SERIES

- No. 1. Herbarium Organization. By Charles F. Millspaugh. 18 pages.
Edition 1100.
No. 2. New Uses of Celluloid and Similar Material in Taxidermy. By
Leon L. Walters. 7 plates. 20 pages. Edition 1100.

LIBRARY

The total number of books and pamphlets in all departments of the Library at the close of the year was approximately eighty-seven thousand. The total number of accessions for the year was two thousand, four hundred and forty-one.

The additions to the Library have been largely through gifts and exchanges. Purchases of books were influenced by the needs of the work in hand in the various departments. The exchanges of the year have been gratifying. A number of foreign institutions have sent their publications to assist in filling in or completing their files or have sent



MAN-EATING LIONS OF TSAVO.
PRESENTED BY PRESIDENT STANLEY FIELD.
Taxidermy by Mr. Julius Friesser and Mr. H. C. Holling.

special publications that were issued during or since the war. Individual contributors both at home and abroad have continued to show their interest by sending contributions.

The number of Publications and Leaflets distributed by the Museum during the year has had a stimulating effect on the exchange list. Publications have been received from seven hundred and eight individuals and institutions.

The search for ornithological literature has been continued until it has narrowed down to rare desiderata. The result of this year's search has been very satisfactory as it has brought many valuable and rare works to enrich the Edward E. Ayer Ornithological Library. In all Mr. Ayer has presented this year six hundred and thirty-eight volumes. Among the notable works received are:

Alpina, 4 volumes, 1806-1809.

Neue alpina, 2 volumes, 1821-1827.

Ardea, volume 1, 1912.

Audubon, The birds of America, 2nd edition, 7 volumes, 1860.

Bailey, H. H., The birds of Florida, 1925.

Duperrey, L. I., Voyage autour du monde. . . sur la corvette, la Coquille., 2 volumes in 4, 1826-1830.

Eschschaltz, Zoologischer atlas, 1829-1833.

Forbush, E. H., Birds of Massachusetts and other New England states, 1925.

Gosse, P. H., Illustrations of the birds of Jamaica, 1849.

Grandidier, A., Histoire naturelle des oiseaux, Madagascar, 4 volumes, 1878-1881.

Krause, G., Oologia universalis palaeartic, 78 plates, 1905-1915.

Kuroda, N., A contribution to the knowledge of the avifauna of the Riu-Kiu islands, 1925.

Lavauden, L., Voyage de M. Babault en Tunisie. Oiseaux, 1924.

Lee, O. A. J., Among British birds and their nesting haunts, 4 volumes, 1897.

Macgillivray, W., A history of British birds, 5 volumes, 1837-1852.

Milne-Edwards, A., Recherches sur les oiseaux de la France, 2 volumes, 1867-1872.

Naumann, J. F. and Buhle, C. A., Die eier der vögel Deutschlands, 1818.

- Nilsson, S., *Ornithologia suecica*, 2 volumes, 1817, 1821.
 Olphe-Gaillard, L., *Contribution à la faune ornithologique de l'Europe*, 1884-1892.
 Osbeck, P., *Reise nach Ostindien und China*, 1765.
 Pelt-Lechner, A. A. van, "*Oologia neerlandica*," 2 volumes, 1910-1913.
 Pennant, T., *Arctic zoology*, 2 volumes, 1784-1785.
 Richardson, J. and Gray, J. E., *The zoology of the voyage of H. M. S. Erebus*, 2 volumes, 1845-1875.
 Rochebrune, A. T. de, *Faune de la Senegambie. Oiseaux*, 1883-1884.
 Ross, A. M., *Birds of Canada*, 1872.
 Sundevall, C. J., *Svenska foglarna*, 4 volumes in 3, 1856-1886.
 Temminck, C. J., *Catalogue systématique du cabinet d'ornithologie et de la collection de quadrumanes*, 1807.
 Wright, M. V., *Funlands foglar*, 2 volumes, 1859, 1873.
 Zichy, E., *Dritte asiatische forschungsreise. Zoologische ergebnisse*, 1901.

Mr. Ayer also purchased for the zoological library the following works;

- Audubon and Bachman, *Viviparous quadrupeds of North America*, original edition, 5 volumes, 1845.
 Azara, *Quadrupeds of Paraguay*, 1838.
 Buffon, *Oeuvres complètes*, 34 volumes, 1827-1828.
 Buffon, *Oeuvres complètes*, Daubenton, 40 volumes, 1824-1830.
 Chinese fishes, illustrations.
 Couch, *History of the fishes of the British Islands*, first edition, 4 volumes, 1862-1865.
 Gould, *Kangaroos*.
 Gould, *Mammals of Australia*, 3 volumes, 1863.
 Maxwell, *Stalking big game with camera in equatorial Africa*, de luxe edition, 1924.
 Millais, *Breath from the veldt*.
 Museum National d'Histoire, *Naturelle Annales*, 20 volumes, 1803-1813.
 Museum National d'Histoire, *Naturelle Mémoires*, 20 volumes, 1815-1830.
 Naturaliste, 32 volumes, 1877-1910.

Scopoli, J. A., *Annus I-V historico-naturalis*, 5 plates in 1, 1769-1772.

Thorburn, British mammals, 2 volumes, 1920-1921.

The catalogue of the Edward E. Ayer Ornithological Library that has been in preparation for a couple of years is nearly ready for the press. Originally this was planned to be simply a check list, though a comprehensive and useful one, but as the work progressed it has become instead a bibliography that contains information and facts that will make it for all time an indispensable manual to every student of ornithology.

The activities of the Library during the year were largely confined to the usual routine work necessary to keep available the material in the Library and the current accessions as they were received. There were written and inserted in the various catalogues ten thousand two hundred and eighty-one cards. From the John Crerar Library were received and filed eight thousand seven hundred and fifty-four cards. There were sent to the bindery nine hundred and twenty-four volumes of periodicals, serials and other unbound publications.

Owing to various conditions it had not been feasible hitherto to make an inventory of the books in the departmental libraries since their final reorganization but this past year an inventory was taken of the anthropological, botanical and zoological libraries. This was necessarily a slow process and consumed much time owing to the various changes that had been made. The results were, however, quite satisfactory.

The need of more shelf room in the general library was met by the addition of one stack. A rearrangement of the lighting system made in the stacks has added much to their convenience as well as economy of electricity. A built-in case for the sample backs used in binding was also added.

The completion of the Union list of serials of the libraries of the United States and Canada is anticipated as a valuable bibliographical aid and the Library is sending in its list of periodicals to be incorporated as the parts are issued.

Advantage has been taken of the inter-library loan service for books needed by the staff. This service is of the greatest value to research workers, making available as it does the resources of the libraries of the country under an arrangement whereby rare books may be borrowed and lent with insured safety. Acknowledgment of indebtedness is made to the libraries from which books have been borrowed during the year. The Library has been able to reciprocate with loans to other institutions.

DEPARTMENTAL CATALOGUING, INVENTORYING
AND LABELING

ANTHROPOLOGY.—The work of cataloguing in the Department of Anthropology has been continued as usual during the current year, the number of catalogue cards prepared totaling 4,389. These cards are distributed geographically as follows for the accessions received during the year: South American and Mexican archaeology and ethnology, 2,103; North American archaeology and ethnology, 864; Australia and Africa, 39; Egypt, 3; Melanesia, 27; Micronesia, 7; Polynesia, 157; Europe, 58; China, 165; Japan, 8; Borneo and Java, 115; India and Siam, 3; Ayer pewter collection, 81; total, 3,630. The following cards were prepared this year for accessions received previous to 1925: South American archaeology and ethnology, 5; North American archaeology and ethnology, 83; Africa, 7; Egypt, 4; Polynesia, 5; Europe, 30; Japan, 22; Korea, 1; China, 489; Persia and India, 10; Federated Malay States, 86; Ayer pewter collection, 17; total, 759. The total number of cards prepared was 4,389. Of these cards, 2,389, with the addition of 407 cards for the Arthur B. Jones collection, have been entered in the inventory books of the Department which now number 44, making a total of 2,796 cards entered. The number of annual accessions amounts to 84, 64 of which have been entered. Twenty-three accessions from previous years were also entered. The total number of catalogue cards entered from the opening of the first volume is 166,685.

Several thousand labels for use in exhibition cases were prepared and installed during the year, the number of labels supplied by the printer totaling 5,100. These labels are distributed as follows: Polynesia, 3,272; China, 1,023; Malaysia (Arthur B. Jones collection), 305; Ayer pewter collection, 237; Stanley Field Hall, 129; American Indians, 102; Egypt, 32; total 5,100.

The Department was supplied with 8,490 catalogue cards and 150 maps for the cases in the new Polynesian Hall. One hundred and forty-one label cards were prepared and added to the label-file. Three hundred and one photographs were added to the departmental albums, and one new album for New Zealand was started.

BOTANY.—In the Department of Botany catalogue, 3,173 entries were made during the year, bringing the total number of catalogue volumes to 63 and the catalogued specimens in the department to 553,249. The entries added to the department card index to collectors number 34, and to the index of geographic localities, 11. About 120 cards were added to the catalogue of plant names.

About 4,000 new genus covers were provided, one-half of these for the Illinois Herbarium in connection with its complete reorganization, some hundreds for fungi and the rest for new additions to the main herbarium of flowering plants.

Descriptive labels were written during the year for additions to the exhibits in the Hall of Plant Life and various old labels were revised. For the plant economic exhibits labels were prepared for the cane and beet sugar exhibits, for the miscellaneous collection of sugars and for the revised wood distillation products.

GEOLOGY.—The total number of new catalogue entries for the year was 8,706. The majority of these were of invertebrate fossils of the Borden collection, the cataloguing of which is still in progress. All new accessions received during the year have been catalogued, except the collections of the Captain Marshall Field paleontological expeditions in Argentina and Bolivia of which 434 specimens have been recorded.

Cataloguing of the Borden collection of invertebrate fossils performed during the year has involved examining a total of 9,621 specimens, of which 7,778 have been identified and labeled, and 1,843 of previous entry have been checked and labeled. During this work 25 undescribed species have been discovered and the high quality of the collection confirmed. The specimens received from the South American paleontological expeditions have all been unpacked, grouped according to species and placed in trays.

A complete catalogue of the Department series of lantern slides was prepared and the slides then transferred to the General Files. The total number of slides so catalogued was 1,774. The slides were grouped geographically, labels were provided where they were lacking and any needed repairs on individual slides were made.

The miscellaneous collection of large maps, numbering 110, was classified and catalogued. The maps were then arranged in drawers in such a way as to make them readily available for reference. With 303 of the topographic maps of the United States Geological Survey there were filed brief labels descriptive of the topographic features shown. Eighty-six additional maps of this series were received during the year, making a total of 2,993 U. S. Geological Survey topographic maps now on hand. All are filed alphabetically by sheets and grouped according to the states.

The smaller specimens of meteorites, 611 in number, not suited for exhibition were placed in trays, arranged in alphabetical order and the labeling of each checked.

Sixteen trays were provided for the card catalogue of the Department library and the catalogue, numbering 4,665 cards, was transferred to them. To the Department photograph albums 554 prints were added during the year, making a total of 4,970 prints in these albums. All except the latest of these are fully labeled. The prints added were chiefly of photographs made by the Captain Marshall Field Expeditions to Argentina, Bolivia and Brazil.

A total of 644 labels was written during the year. These included descriptive labels written for the series of blast furnace models, the cement plant model and for some of the exhibits in Stanley Field Hall. The shorter labels were chiefly for newly installed specimens of crystals, gems, fossils and ores. There were received from the printing department 590 labels.

ZOOLOGY.—Regular cataloguing of zoological specimens proceeded at an increased rate. The total number of regular entries was 6,104 as against 3,782 the preceding year. They were distributed as follows: Mammals, 1,477; Birds, 10; Reptiles and Amphibians, 1,535; Fishes, 3,042; Insects, 10. Additional card entries in the index catalogues of mammals and of reptiles numbered 2,906, making the total of all entries for the year 8,985.

In the division of mammals, about one thousand specimens have been labeled, these being largely from the Peruvian collections of 1922-23. All skulls of the Chilean collection have been numbered and, when identified, have also been labeled. Reptiles and amphibians, for the most part, have been identified, labeled, and shelved. Exhibition labels were prepared for all new exhibits and about 300 labels were printed to replace old ones in the systematic exhibit of fishes in order to make the labeling in this exhibit uniform throughout.

Photographic prints in the Department of Zoology, which have received little attention for some years, were subjected to rearrangement and classification. The departmental albums now contain 6,554 prints of which 519 were mounted during 1925 and 1026 were labeled with data as to subject, locality and source.

The state of the catalogues at the end of the year is as follows:

	Number of Record Books	Total of Entries to Dec. 31 1925	Entries during 1925	Total of cards written
Department of Anthropology....	44	166,685	2,796	168,686
Department of Botany.....	63	553,249	3,173	10,835
Department of Geology.....	26	172,294	8,706	6,822
Department of Zoology.....	46	116,236	6,104	40,265
Library.....	14	158,097	12,852	341,337

ACCESSIONS

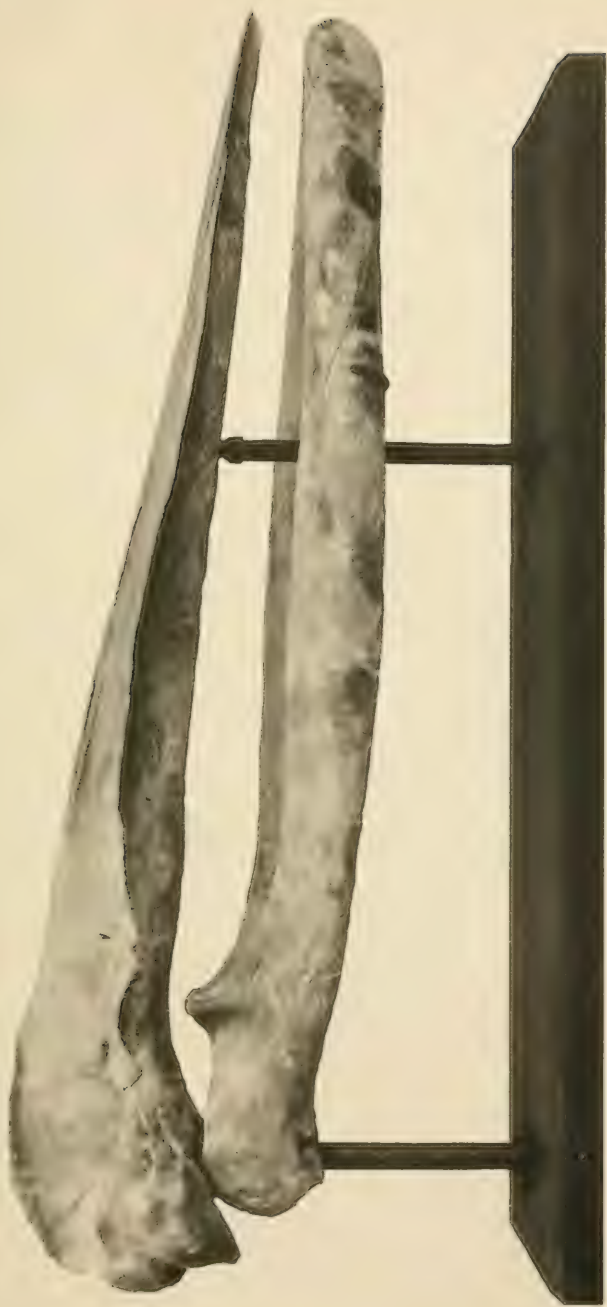
ANTHROPOLOGY.—The new accessions received during the year by the Department of Anthropology amount to 84, the highest number of accessions ever recorded in any year. Of these 65 are by gift, 3 as the result of Museum expeditions, 9 by exchange and 7 by purchase. These accessions aggregate a total of 8,037 objects, and many are of great value and importance.

Among the treasures brought back from Egypt by Professor Breasted, the granite statue of Senmut, an architect of the fifteenth century B.C., occupies the first rank. The statue, presented by Mr. Ernest R. Graham, is a little under one-third life-size. The famous architect was the guardian of the young princess whom he tenderly carries in his arms. This princess was the daughter of the celebrated Queen Hatshepsut, the first great woman recorded in history. There are three inscriptions on the statue: one of six lines on the front; another, of three lines on the base; and a third, of one line on the plinth behind. According to the six-line inscription on the front of the architect's garment, the statue was presented to him as a token of favor from the Queen herself, and is therefore the work of a royal sculptor. Senmut was the builder of the magnificent temple of Deir-el-Bahri, close by the tomb of Tutenkhamen, and erected the obelisks of Queen Hatshepsut. The Queen whom he served was an able politician, and he was one of the leaders of the coterie which she gathered about her. Eventually, however, the whole group fell, including the Queen, and our architect's name was cut out wherever it appeared on the monuments of Egypt. It is interesting to note that his name is also effaced on this statue, though there are several places where it is still unmistakable. This, according to Professor Breasted, goes to show that our statue once stood in a public place, and circumstances warrant the conviction that this place could only be the great Karnak temple. This sculpture, therefore, with its inscriptions, is one of paramount historical interest and importance. The Museum, further, secured through Professor Breasted a bronze sistrum and nine excellent bronze statuettes as follows: torso of Taharka, the standing figure of a king of the Middle Kingdom, a royal standing figure with face damaskened in gold, a seated figure of the goddess Isis, a superb Horus Bird with golden eyes, a standing figure of Nefertem, a standing figure of the Moon-god, a Scorpion goddess, and a sitting figure of Imhotep, the father of architecture in stone masonry, holding an open papyrus roll in his lap. Although the last is only four inches in height, it is a very remarkable portrait statuette of great artistic quality. The granite statue and bronzes, together with a collection of 154 beautiful alabaster

vases and bowls, were presented to the Museum by Mr. Ernest R. Graham. A magnificent collection of 580 ancient Egyptian and Coptic textiles discovered in tombs and likewise selected by Professor Breasted in Egypt was presented by President Stanley Field. Professor P. E. Newberry, the English expert in textiles, regards this as the best collection of ancient textiles outside the South Kensington Museum of London. It consists not only of numerous panels, medallions, and borders with woven and embroidered designs, but also of complete linen garments in a wonderful state of preservation. It includes a rug (35 x 27 inches) with a heavy nap, decorated with geometric designs in red, blue, green and yellow, according to Professor Breasted, the oldest woven rug in existence (about 200 B.C.).

An oil-painting (6 x 8 feet) representing the Rock Temple at Aboo Simbel, Egypt, and painted in 1874 by Andrew McCallum, has been presented by Mr. Thomas S. Hughes, a well-known art-dealer and connoisseur of Chicago. This is a very instructive picture of great archaeological interest. The temple of Aboo Simbel hewn out of the solid rock, with a front 119 feet wide and over a hundred feet high, is one of the marvels of ancient Egyptian architecture, and was built by Ramses II (1292-25 B.C.). The four gigantic statues which adorn the façade, each being 65 feet in height, represent the king himself and are excellent portraits of him. There are also smaller figures representing members of his family, as his mother, wife and two of his daughters. Andrew McCallum was a noted landscapist whose work attracted the favorable notice of Queen Victoria. He was born at Nottingham, England, in 1828, studied in Paris and Italy, became director of the Manchester School of Art, and died in 1902. The gilt frame of the painting is carved with designs of Egyptian style. Mr. Hughes also presented two very interesting wooden statuettes, one from China and one from Burma, which had been obtained by Sir Thomas Marion Wilson on his travels in 1875.

A notable acquisition of great interest is represented by an extensive collection illustrating the culture of a large group of Negro tribes who belong to the western Bantu and inhabit the territory of Cameroon on the west coast of central Africa. This culture area is distinguished by a high development of the industrial arts, particularly in wood and ivory carving, weaving and knitting, beadwork, iron forging and metal casting, and shows the ability of the Negro at its best. In this respect, Cameroon culture displays many affinities with the ancient art of Benin, which is well represented by many good examples in the Museum, and with that of the Sudan. For this reason this new collection connects



SKULL OF FOSSIL WHALE.

PAMPAS OF PATAGONIA.

COLLECTED BY THE CAPTAIN MARSHALL FIELD PALEONTOLOGICAL EXPEDITION TO ARGENTINA, 1923.

Length 6 feet 6 inches.

Prepared by Mr. J. B. Abbott.

well with the Museum's former acquisitions from Africa exhibited in the West Gallery. There is, however, a remarkable difference between this and the older collections: the latter were more or less haphazardly brought together, chiefly by way of exchanges, while the new collection, made with intelligence and good judgment, is very comprehensive and affords an accurate and complete view of a well defined culture area. It consists of about two thousand objects of a great variety, most of them old, all of superior workmanship and in a good state of preservation, well determined according to locality and tribe. Three complete figures of dancers—a warrior with mask, knitted suit, shield and spear, one clad with feather dress and mask, and another with a beaded head-dress in shape of a lizard—are especially noteworthy. There are two well-carved wooden beds; two large old wooden drums with splendid carvings, the property of once powerful chieftains; about a hundred sculptured wooden images, and many excellent carved masks, door-posts, and house-posts. Clothing; weapons like bows, crossbows, poisoned arrows, swords, daggers, axes, spears, clubs, shields and fire-arms; baskets, bags, mats, pottery, knives, implements, tools, harness, fishing appliances, ornaments and musical instruments including fine signal-drums, are fully represented. The most remarkable achievements of this Bantu culture are bracelets carved from elephant's ivory and complete elephant's tusks carved all over and serving as signal-horns; chieftain's seats of wood gorgeously decorated with colored glass beads; picturesquely beaded calabashes of enormous size, for palm-wine; beaded head-dresses and other articles of clothing for ceremonial dances; also huge tobacco-pipes of clay, wood, and bronze. The bronze castings of these tribes rival those of Benin, and their wood-carvings are probably the best made in Africa. Many of the latter are portions of chieftain's houses, as door and window frames. About six hundred good negatives taken in Cameroon over twenty years ago and representing scenery, villages, and types of natives accompany the collection. Combined with the former acquisitions from Africa, it will form the nucleus of a new African Hall to be installed during the coming year in Hall D on the ground floor.

As a further result of the excavations at Kish a very interesting collection of over seven hundred objects was received this year. These include 362 pottery vessels, numerous stone, shell, bone and metal objects, beads, seals, and cups of ostrich-egg shell.

A fine mat from India, woven from ivory threads (6x3 feet), formerly the property of the late Charles B. Cory, Curator of Zoology in the Museum, was acquired through an exchange with his son.

Mr. Edward E. Ayer added seventy-five pieces to his collection of 439 pewters, thus swelling the total to 514 objects. Prominent among these new acquisitions are large Chinese tea-jars and trays of the Ming period (1368-1643) decorated with inlays of figures and ornaments in brass, an octagonal Ming tea-pot, each panel inlaid with a mythological figure in brass and copper, two puzzle wine-pots in shape of peaches made by Shen Chen-chou, a famed pewterer of the Kien-lung period (1736-95), candlesticks, colored figures, censers, boxes, tea-caddies, and an old English porringer with two flanges decorated with palmetto designs. Mrs. Edward E. Ayer presented a decanter with a set of four glasses trimmed with elaborately decorated pewter.

Mrs. Homer J. Tillotson of Los Angeles presented for the Ayer collection a pewter chalice coated with a fine dark patina and unearthed in 1715 on moorland in Chester, England. It was found embedded in old masonry together with church manuscripts, books, and records, which presumably had formed the corner-stone of a chapel.

A very large collection of rhinoceros-horn cups from China was presented by Mr. John J. Mitchell of Chicago. The horn of the rhinoceros was chiefly carved by the Chinese into drinking-cups. It was an ancient belief that the rhinoceros devours with its food all sorts of vegetable poisons and that its horn therefore was capable of neutralizing poison. A cup carved from the horn was accordingly credited with the ability to detect poison, and was regarded as an efficient antidote. The cups in this collection range from the Ming (1368-1643) to the Manchu dynasty, and display a great variety of forms and designs. The natural conditions of the horn are admirably adapted to the artist's intentions. In many of these cups the shape and designs of ancient bronze and jade vessels are skilfully reproduced; others assume the shape of lotus-leaves or lotus-flowers, with admirable carvings in high and undercut reliefs. The collection affords excellent material for a study of Chinese decorative motives, as developed during the last five centuries.

Three ornamented tomb-bricks of the Han period, China, are the gift of Miss Kate S. Buckingham, Chicago.

Two highly ornamented, so-called "Karen" bronze drums were purchased of Dr. Joseph F. Rock, who had obtained them on his expedition in Upper Siam in 1920. This type of kettle-drum presents an interesting archaeological problem, as it is widely distributed over a vast area of southeastern Asia stretching from the Island of Hainan through southern and western China into Upper Burma and Siam, the Malay Peninsula, Java and other islands of the Malay Archipelago. The "Karen" drums made by the Shan of Upper Burma are decorated with figures of frogs,

in the same manner as the two drums of enormous size from southern China obtained by the Captain Marshall Field Expedition to China in 1923. Together with the six bronze drums from Se-chwan Province in Case 6, Hall 24, the Museum now owns ten of these drums.

A remarkable ethnographical collection from the Dayak of eastern Dutch Borneo, comprising 143 objects, was presented by Dr. William O. Krohn of Chicago, who had visited Borneo himself in 1924, with full and interesting data. This collection is the more welcome, as it bears on a group of Dayak tribes not visited by the Arthur B. Jones Expedition and formerly not represented in the Museum. It comprises blow-pipes, swords, spears, good old shields with fine painted designs, costumes, hats, ornaments, wooden masks, mats, baskets, musical instruments, games and toys. A small collection from the Dayak of Dutch Borneo, chiefly consisting of articles of clothing and weapons, is the gift of Mr. and Mrs. C. M. Worthington of Chicago.

Mrs. Dennis O'Keefe presented a dancing costume of dyed Hibiscus bark fibers from Papeete, Tahiti, of beautiful color and workmanship and unlike anything that the Museum previously had; a loin-cloth of tapa from Suva, Fiji, and two pieces of tapa from Pagopago and Apia, Samoa, stamped with interesting designs. Four pieces of Samoan bark-cloth or tapa were donated by Mrs. William Larmer, Chicago. Much valuable ethnographical material from Hawaii and the Marquesas was obtained through exchange with the Bishop Museum of Honolulu. This collection includes stone hammers and adzes, pounders and lamps, samples of tapa and implements used in preparing it, excellent wooden bowls and platters, gourd bottles, whistles and rattles, shell implements, tobacco-pipes, musical instruments, necklaces, Pandanus mats, pillows, and fans, fishing implements and feather work. Among the objects from the Marquesas is a large wooden image which Dr. Linton had obtained while exploring the islands on behalf of the Bishop Museum. This was an ancestral figure to which human sacrifices were made when rain was desired or when cessation of rain was sought. All this material has been utilized in completing the exhibits in the new Polynesian Hall.

Much material was gathered by the Captain Marshall Field Expedition to Peru under the leadership of Dr. A. L. Kroeber: 658 pottery vessels, 334 lots of pottery sherds, 28 figurines or dolls, 135 textiles, 115 implements for spinning and weaving, 70 other implements of wood and cane, 27 objects of copper and 4 of silver, 29 objects of shell or bone, 36 baskets and mats, 35 calabash vessels, 55 desiccated bodies (so-called mummies), mostly of children, 283 skulls and lots of bones, 107 miscellaneous objects including samples of maize and other food-

stuffs, cotton, wool, feathers, whistles, paint and plaster, stone, false cloth faces of "mummies," aggregating a total of 1,971 objects. Many pieces of pottery are distinguished by artistic quality, being decorated with finely painted designs or fashioned in the shape of fruits. Dr. Kroeber spent ten days in the Museum in December, studying his collection and preparing his report which will be published by the Museum in 1926. The collection is already catalogued and numbered, and preparations are being made for having a goodly portion of it installed early in 1926.

Mr. Edward H. Thompson, to whom the Museum owes a fine collection from the Maya, presented two large pearls found by him last summer in the sepulchre of the High Priest at Chichen Itza, Yucatan, Mexico. These are believed to be the only pearls ever discovered in the Maya area.

Mrs. Charles B. Cory presented man's and woman's costumes from the Seminole of Florida obtained by the late Curator Charles B. Cory during his explorations in Florida in 1894, a record of which is preserved in his book "Hunting and Fishing in Florida" (Boston, 1896). As a personal souvenir of Professor Cory and because the Museum possesses little from the Seminole, this gift is much appreciated.

Mr. M. G. Chandler's expedition to the Central Algonkian tribes of the Chicago area, under the Rosenwald fund, resulted in a collection of 320 objects representing clothing, mats, bags, clubs, spoons, mortars, saddles, snowshoes, flutes, pipes, bundles and other ceremonial objects of the Potawatomi, Menominee, Winnebago, Misticassini and Chippewa. The most important specimens collected among the Potawatomi tribe are ceremonial articles, including a Wabano drum, a Medicine Lodge drum and quilled otter for the Medicine Lodge with other medicine bags, and medicine slabs made of wood and bearing designs representing herbs used as drugs. The most attractive articles for exhibition are those decorated with appliqué work. A very fine series of these was obtained, including most of the techniques and designs practised by these people in early days. This work resembles quite closely that of the Miami tribe, the designs being much smaller than those used by other tribes in this locality. These specimens are far superior to any these people now wear at their ceremonies, and evidently have been handed down as heirlooms for several generations. Many were reluctant to part with these treasures, fearing that the designs might be lost for them. Among the Menominee, Mr. Chandler obtained a rare conjurer's outfit consisting of a bag that contains a mounted loon-head which can be so manipulated that it will rise out of

the bag, stare around at the spectators and then disappear. He also secured the medicine which is said to improve the ability of the loon-head to perform in this manner. The quilled otter and buckskin leggings collected by him among the Winnebago, will serve to round out the Museum collection from this tribe.

Mr. Homer E. Sargent of Pasadena, California, added 29 baskets from the Indians of Arizona and California to his former very substantial contributions in Indian baskets, and presented an exceedingly fine Saltillo serape (8 x 4 feet) decorated with geometric designs in red, blue, and black on a white background, likewise a pair of snowshoes from the Chippewa, an axe, a spear-head, and a dagger beaten out of a nugget of native copper by Copper Center Joe, an Indian of the Aishihik tribe in the Yukon Territory of Alaska, and reproducing exactly these copper weapons as made in ancient times.

A buckskin skirt and apron, ornamented with abalone shells and Chinese coins, of a Karok girl was presented by Miss G. Nicholson of Pasadena, California. A gift of ten feather head-dresses of the Hupa, California, was made by Mr. Edward E. Ayer.

Interesting collections of Crow and Cheyenne medicines and medicine bundles were obtained through exchanges with Mr. W. Wildschut of Billings, Montana, and Mr. M. G. Chandler, Chicago. A very important collection from the Hopewell and other mounds of Ohio, amounting to 369 objects, was secured by exchange with the Ohio State Museum, Columbus, Ohio. It includes celts, mica and obsidian objects, copper ornaments, pipes, bone awls, and tools, and rounds out the Hopewell collection of the Museum very efficiently. Several fine bird stones, gorgets, and discoidals were received as the result of an exchange with Mr. H. L. Johnson of Clarksville, Tennessee. Much interesting material was obtained by way of exchange with the Logan Museum of Beloit College, Beloit, Wisconsin, especially many prehistoric copper and chipped flint implements and grooved stone axes from Wisconsin, stone celts from other parts of the United States, many implements from the stone age of Denmark, a fine pottery vase from Chancay, Peru, and another made by the Yuma of California.

A collection of clothing, weapons, and implements from the Copper Eskimo living around Coronation Gulf, Canada, was purchased of Mr. John G. Worth, Philadelphia, and will make an interesting addition to the Eskimo exhibits in which this group was heretofore not represented.

A miscellaneous archaeological and ethnographical collection, consisting of 361 objects from all parts of the world, and formerly the prop-

erty of Mr. C. F. Gunther, a well-known Chicago collector, is the joint presentation of President Stanley Field, Mr. Henry J. Patten, and Mr. Charles B. Pike. The late George Manierre, trustee, presented a collection of 281 objects, among these being interesting tobacco-pipes from North America, Mexico, and Japan, numerous stone implements and pieces of prehistoric pottery from Illinois, the Mississippi Valley and other parts of North America, and baskets from California and obsidian flakes from Mexico.

BOTANY.—Nearly 9,000 specimens, distributed among 57 accessions, were added to the collections of the Department of Botany during 1925. Approximately 2,000 of these were received as gifts, 2,154 in exchange, and over 3,600 by purchase, while 1,215 were secured on Museum expeditions. Although the greater portion of these collections consists of herbarium material there are 627 specimens of economic or exhibit interest, not including in this number a collection of woods which contains 275 pieces.

The larger or more significant gifts of herbarium specimens include a collection of Cycads from Professor C. J. Chamberlain, consisting of 23 species secured in various parts of the world by the donor and grown by him in the conservatory at the University of Chicago. It comprises the species upon which Dr. Chamberlain's well-known research has been based and constitutes a notable addition to the herbarium. A collection of North American plants, mostly from Illinois, by Mr. H. C. Benke is especially representative of the grass and sedge flora of the Fox River Valley and was obtained over a period of years, following the suggestion of Dr. C. F. Millspaugh. Mr. Benke's exhaustive and discriminating field-work has determined more definitely the ranges within the state of many species, not a few of which he has recorded for the first time from localities where they were not known to grow. His gift of 487 specimens during 1925 will therefore be of particular value to students of the local flora; and, as it also contains a quantity of interesting specimens from many other states from Florida and Louisiana to Wisconsin, and from California, it is one of the most welcome accessions of the year. In addition to the carefully mounted material for the Museum herbarium, there were 75 duplicates to be used for exchanges. Mr. Benke also presented the Museum with 32 photographic plates and prints, some of them hand colored, made by him in the city parks purposely for the use of the Department of Botany. Another collection of 300 flowering plants mostly from Arkansas was presented by Mr. H. E. Wheeler. This is an excellent representation of the flora of that state, includes many of the rarer species and augments most desirably

the Museum collection from Arkansas. Twenty-four photographs of species of mints, unrepresented in the herbarium, were given to the Museum by Dr. Carl Epling of the University of California, Southern Branch. A set of 250 sheets of New Zealand ferns were received from Mr. S. W. Weis and added to the Museum's growing fern herbarium. Mrs. Annie Nethercote contributed 300 European and American specimens, collected by her during various sojourns abroad and on trips in the United States, which were found to contain a number of plants representative of interesting localities. Mr. D. C. Peattie contributed a set of 121 selected plants from the dune region of Indiana, on the flora of which the donor is an authority. The Museum's representation of the plants of the region thereby becomes nearly complete.

The more important accessions of economic specimens include a gift from the Corn Products Refining Company of samples of all of their more recently developed products not included in the series of corn products presented by them several years ago. These will be added to the food products shown in the plant economic exhibits.

A large collection of woods, American and foreign, was presented by Mr. R. R. Stone of Chicago. Among the specimens are many highly desirable additions to the reference and exhibit collections.

Two fine sections of Quebracho wood from Argentina were received as a gift from the Tannin Extract Company of Brooklyn.

Other gifts during the year were: 1 specimen of tobacco captured by Confederate General Gillon near Russellville, Tenn., from Mr. J. A. Andrews, Chicago; 1 herbarium specimen of the Fox Grape, Indiana, from the Honorable J. R. Churchill, Boston, Mass.; 2 specimens of palms, Florida, from Dr. B. E. Dahlgren, Chicago; 6 specimens of wood distillation products from Florida Wood Products Company, Jacksonville, Florida; 2 herbarium specimens of mosses, Washington, from Mr. Julius Friesser, Chicago; 1 specimen showing the destructive work of ants on wood from Mr. J. P. Hallberg, Winegar, Wisconsin; 1 lichen, Arctic Region, from Mr. Alfred S. Johnson, Chicago; 4 herbarium specimens, Illinois, from Mr. J. F. Macbride, Chicago; 1 herbarium specimen of *Coronilla varia* L., Michigan, from Mr. James McCurragh, Portage Point, Onekawna, Mich.; 1 herbarium specimen of *Amyris elemifera* L., the timber tree called "Melón," Central America, from Dr. S. A. Padilla, Salvador, Central America; 1 grass specimen, Illinois, from Mr. James H. Palmer, Chicago; 1 specimen of the rare *Zaccagnia*, Argentina, from Dr. J. N. Rose, Washington, D. C.; 4 herbarium specimens of *Bidens*, Costa Rica and Brazil, from Dr. E. E.

Sherff, Chicago; 1 fungus specimen, Minnesota, from Dr. M. S. Whetstone, Minneapolis, Minn.

The accessions accredited to expeditions are as follows:

As a result of the collecting by A. C. Persaud in British Guiana, provided for under the Captain Marshall Field Expedition Fund, there were received early in the year specimens of woods from the upper Demerara River country accompanied by 51 herbarium specimens pertaining thereto, together with duplicate sets of these for distribution.

The collections made by Dr. A. Weberbauer during six weeks early in 1925, also under the Captain Marshall Field Fund, totaled 254 collection numbers comprising over 1,000 specimens. Many of these are now being determined by specialists in certain plant groups and preliminary reports indicate that this material is a most important addition to the Museum's rich Peruvian herbarium.

Although not included in the accessions for 1925 (the material not having been received) mention may be made here of the botanical work during this year in Peru and Chile of Dr. F. W. Pennell of The Academy of Natural Sciences of Philadelphia to which the Museum contributed from the Captain Marshall Field Fund. Dr. Pennell was unusually successful, securing 2,620 numbers or about 10,000 specimens.

Of the great amount of desirable material received in exchange from other institutions special mention can be made only of the larger collections; for example, 181 sheets from Pomona College, Claremont, California, sent through Dr. P. A. Munz; 90 specimens from the University of California, Southern Branch, through the courtesy of Dr. Carl Epling; 1089 specimens from the U. S. National Museum, communicated by Dr. W. R. Maxon and his associates; 142 specimens from the United States Department of Agriculture; 500 specimens from the Hungarian National Museum of Budapest and 151 from Professor Arthur de Jacewski. All of these sets contain plants not before represented in the herbarium. One herbarium specimen from Peru was also received in exchange from the Missouri Botanical Garden.

Most of the purchased collections were of interest either as coming from parts of the world imperfectly known botanically or from regions inadequately represented in the herbarium. Among the former may be mentioned two lots by Mr. José Steinbach from Bolivia; 90 from Salvador, collected by Professor Salvador Calderón, and containing many interesting types of the flora of Central America; 300 Chilean plants from Dr. E. Werdermann of Santiago, mostly representative of the coastal flora of that country and of exceptional interest to American botanists because of the points of similarity between the vegetation of

Chile and the western United States; Mr. W. E. Broadway furnished a collection of 638 items from Trinidad, of which 43 were wood specimens and 112 fruits and seeds. Among the latter were a series of 350 Arizona specimens bought from Professor H. C. Hanson of the University of Nebraska; a set of 226 collected in Sweden and Norway and another of 203 in Mexico, both purchased from Mr. G. L. Fischer of Houston, Texas; and a collection of 231 sheets of New England plants obtained from Mr. C. H. Knowlton of Hingham, Massachusetts. A purchase of economic material consisted of an admirable lot of seeds illustrating 500 weed seeds, each contained in a glass vial and carefully labeled. It was secured from the collector, Mr. R. H. Greer of Western Springs, Ill.

The remaining purchases were of cryptogamic plants: American lichens from Dr. G. K. Merrill of Rockland, Maine; Jaap Fungi Exsiccati from South America bought from Mr. T. O. Weigel, Leipzig, in continuation of the subscription by Dr. E. T. Harper whose great collection of fungi was given to the Museum. Particularly valuable is a series of 142 algae from Barbados, secured from Miss Mary H. Shaw, 41 Mercers Road, Tufnell Park, London.

GEOLOGY.—Through the continued interest and generosity of Mr. William J. Chalmers, 109 specimens of rare, crystallized minerals, all of occurrences or species entirely new to the collection, were received by gift. These specimens included gem minerals from Brazil, among which were blue, red and green tourmalines, euclase and topaz; a full series of the rare radium minerals curite, soddite, slodowskite etc., from Africa; the largest known crystal of monazite; specimens of the rare species ferrierite and foshagite and a number of unusual occurrences from European localities. Three cut diamonds of different colors, each weighing about .3 carats, from the mines of the Ozark Diamond Mining Co., Murfreesboro, Arkansas, were presented by Mr. Howard A. Millar. From the same donor and Mr. Austin Q. Millar, there were received 21 specimens of the rocks and minerals associated with the diamonds of that locality. Mr. H. E. Wheeler gave a series of sixty specimens of the minerals of Magnet Cove, Arkansas. A large variety of crystals of brookite, rutile and schorlomite was included in this collection as well as a number of the unique minerals and rocks of this locality.

An excellent specimen of one of the trees which grew in the Carboniferous period and formed coal beds was received by gift from Mr. Walter G. Zoller. The specimen shows a complete section across the

trunk of a Carboniferous tree 28 inches in diameter and with spreading roots at the base. It was obtained from the Zeigler No. 1 coal mine at Zeigler, Illinois, and was collected with such care that many of the surface details are preserved. A cast showing a nest of fossil dinosaur eggs from Mongolia was presented by the American Museum of Natural History. Casts of skulls of the reptile, *Protoceratops*, and of the large carnivorous mammal, *Andrewsarchus*, from Mongolia, and of the skull and limbs of the early horse, *Pliohippus*, from a United States locality were donated by the same institution. A number of specimens of fossil corals, most of them polished, were received. Of these, fifteen specimens from Michigan were presented by Mrs. Mary S. Perry and eleven specimens from Iowa by Mr. John Davis. Two polished slabs of Ozora marble of the size adopted as standard for the Museum collection were presented by the Ozora Marble Quarries Co. The Sall Mountain Co. gave eleven specimens of the various asbestos products which they manufacture from the crude material, specimens of which had previously been received. The Illinois Clay Products Co. gave six specimens of their products and related materials. The Banner Rock Products Co. gave five specimens illustrating a rock wool and some of the fabrics made from it, which they manufacture. This "wool" is unique in being made from limestone. Another economic specimen of interest received by gift was a large mass of the historic gold-bearing black quartz of Calaveras County, California. This was presented by Mr. John G. Elliott. Mr. Julius W. Butler presented 38 specimens of ores and minerals including a fine specimen of chalcedony, from previously unrepresented localities in Montana and Idaho. Two interesting additions to the collection of concretions received by gift were four hematite concretions from North Carolina presented by Mr. Charles B. Cory and ten specimens of the typical claystones of the Connecticut Valley given by Mr. Felix E. Mittau. A specimen of a new individual of the Bingara, Australia, meteorite was presented by Prof. George W. Card of Sydney, Australia. All remaining specimens which had not previously been received of the collections of the Captain Marshall Field Paleontological Expedition to Argentina and Bolivia arrived during the year. The consignment totaled 43 boxes, containing chiefly collections made in Bolivia.

Specimens of several meteorite falls new to the Museum collections were added by exchange. These included three individuals of the Johnstown, Colorado, fall obtained from the Colorado Museum of Natural History; from Harvard University a full-sized section of the New Baltimore, Pennsylvania, meteorite and from individuals, repre-

sentative specimens of the Tucson-Carlton, Arizona, and Olivenza, Spain, meteorites. Specimens of several Brazilian minerals, including the very rare species tripuhyite, were obtained by exchange with Dr. Jorge Ferraz of Rio de Janeiro. Some specimens of cut gem stones not hitherto represented in the gem collection were procured by purchase. These included 5 cut blue zircons, 2 Australian opals, 6 variously colored "tiger-eyes" and 7 unakites. Ten of the Gilmore restorations of extinct dinosaurs and other reptiles were purchased. These restorations, on a scale from $1/30$ to $1/6$ of the natural size of the animals, give presumably accurate representation of the living aspect of these strange creatures. A partially complete skeleton, including a fine skull and jaws, nearly complete limbs and some other bones of the extinct American horse, *Equus scotti*, from Texas, was also purchased.

ZOOLOGY.—Zoological specimens were accessioned to the number of 11,479. They are divided as follows: Mammals, 613; birds, 1,238; birds' eggs, 5; reptiles and amphibians, 1,710; fishes, 1,586; insects, 4,377; shells and other invertebrates, 1,952. Large collections obtained by several expeditions in 1925, notably the African and Asiatic expeditions, have not yet been received. Of the total accessions, therefore, only 1,361, are to be credited to museum expeditions.

An important gift of mammals for the year was the pair of famous man-eating lions, which were purchased and presented by President Stanley Field. Other gifts included 40 small mammals from Alaska, presented through Mr. H. B. Conover and comprising a number of species new to the Museum. Mammals purchased were mainly from South America, 124 from Chile, 89 from Brazil, and 17 from Bolivia. Among them was a well prepared skin and skeleton of the Giant Armadillo, an animal of striking character, so much larger than other modern armadillos as to suggest some of their extinct relatives. From expeditions, 196 mammals were received from Central Africa, 5 from Asia, and 17 from British Columbia.

In the division of birds, 940 specimens were purchased, 224 were received from expeditions, 63 by gift, and 11 by exchange. Of those purchased, over six hundred were from eastern Brazil, in the states of Maranhao, Ceara, and Piauhhy in what is ornithologically perhaps the least known part of South America. Besides specimens from South America, birds were received also from the United States, Canada, Honduras, Formosa, Japan, India, Congo, and Austria.

Of the 1,710 reptiles and amphibians received, 939, or more than half, were obtained through exchange. From the American Museum of

Natural History 691 specimens were added to the collections in partial exchange for the preparation of scientific reports on the reptiles and amphibians of the Third Asiatic Expedition. Other exchanges of reptiles were conducted with the University of Oklahoma, the Museum of Comparative Zoology, the Zoological Society of San Diego, the New York State Museum, and Mr. L. S. Frierson, Jr. Gifts of reptiles included 69 specimens from Negritos, Peru, presented by Mr. Axel A. Olsson; 52 specimens from Louisiana by Mr. L. S. Frierson, Jr.; 41 from South Dakota by Prof. L. Alfred Mannhardt; 43 from Wisconsin by Mr. F. J. W. Schmidt; and 24 from California by Mr. L. M. Klauber.

Accessions in the division of fishes include 730 specimens by gift, 372 from Museum expeditions, 348 by exchange and 136 by purchase. As in former years, contributions from the Lincoln Park Aquarium were important and valuable. Three lots were received from this source during the year, 198 specimens in all. Among them were several species not otherwise represented in the Museum and some, received in fine condition, were mounted for exhibition. Other donations of fishes were received from Mr. Hans Krueger of Spooner, Wisconsin, Mr. Gustav Mann of Chicago, and Mr. Julius Friesser of Chicago. An exchange with the United States National Museum resulted in the acquisition of 326 specimens from the republic of Salvador and another with the University of Michigan, although of only 22 specimens, included paratypes of several recently described species. Some 200 specimens of fishes collected incidentally by Mr. L. L. Walters on the Captain Marshall Field expedition to Georgia formed a further important accession.

Most of the 4,377 insects accessioned were exotic species and all were donations except 53 specimens obtained by Captain Marshall Field expeditions. The largest and most valuable gift, received from Dr. B. E. Dahlgren, consisted of 3,007 Guianan wasps and ants with 160 of their nests. This acquisition was of special value because the nests of nearly all the species were represented. Examples of insect architecture, on account of the aggressive nature of most of the builders, are by no means common in collections. Other gifts of insects include 392 butterflies, moths, and beetles from Dr. and Mrs. C. E. Hellmayr; 359 Norwegian insects from Dr. Sven Narbo; and 343 African butterflies and moths from Major A. M. Collins. Prof. G. H. French of Herrin, Illinois, presented five types of butterflies and moths described during his long and active career as a teacher and entomologist. Gifts of invertebrates, other than insects, consisted mainly of a collection of 1,952 East Indian shells donated by Mrs. W. J. Ammen of Chicago.

EXPEDITIONS

ANTHROPOLOGY.—The Museum maintained four expeditions this year in the interest of the Department of Anthropology.

The Field Museum-Oxford University Joint Expedition to Kish, Mesopotamia, resumed work October 15th, 1924, and continued its operations without interruption until March 15th of this year. Mr. Ernest Mackay, field director and excavator, was this season assisted by Mr. Talbot Rice of Christ Church, Oxford; and Father Eric Burrows S.J., an Assyriologist of Oxford, was sent out as a substitute for Professor Langdon whose professorial duties prevented his absence from the university. The work was concentrated on completing the excavation of the early Sumerian palace partially excavated a year previously, and on extensive research in the vast city ruins of eastern Kish, where remarkable discoveries of cuneiform tablets and objects illustrating the daily life of the Babylonians of the time of Nebuchadnezzar had been made early in 1924. A rich harvest of beautiful copper utensils, gold jewels and ornaments of precious stones rewarded the excavators in the great Sumerian palace. Copper mirrors and hairpins tipped with lapis-lazuli knobs, as well as copper vanity cases containing manicure sets of pincers, tongs and nail-files, together with paint dishes and remains of brushes for coloring lips, cheeks and eyebrows, afford an intimate glimpse into the boudoir of a Sumerian lady. The excavations were suspended temporarily to permit Mr. Mackay to do research-work in the Island of Bahrein on behalf of Sir Flinders Petrie. Active operations were resumed at Kish last October, and Professor Langdon has left for Baghdad personally to take charge of the work which will be extended to a site sixteen miles from Kish, where a very ancient settlement, now named Bughatait, has been discovered. At this place painted pottery and clay tablets inscribed in pictographic script were discovered during last season. It is projected also to proceed now to excavate the great temple of the mother goddess of Kish situated near the palace in eastern Kish, called Harsagkalamma in the inscription recovered last year at the Library Mound. Mr. Dudley Buxton, lecturer in physical anthropology at the University of Oxford, and Mr. Henry Field are on their way to Baghdad to join Professor Langdon. It is their intention to secure data and photographs of the present inhabitants living around Kish for correlation with the skeletal material dug up during the last year.

In view of the universal interest of the public in the Museum's work at Kish and numerous inquiries received from all parts of the country and abroad, the Director takes pleasure in announcing that the first report of Mr. Mackay's excavations of the cemetery "A" at Kish has been

published by the Museum and is now available for distribution. He also desires to call attention to Professor Langdon's book "Excavations at Kish," Vol. I, published this year, copies of which are for sale at the entrance of the Museum.

As Professor James H. Breasted of the University of Chicago visited Egypt on behalf of the Oriental Institute of the University in the beginning of the year, the Museum availed itself of this opportunity and asked for his co-operation in extending the Egyptian collections of the Institution. Plans for the future development of the Egyptian Section were discussed with Professor Breasted, and it was decided to increase the collections at present along the line of statuary, alabasters, and textiles. In accordance with this plan he secured for the Museum a granite statue of the architect Senmut, 9 fine bronze figures, 1 rare bronze sistrum, 154 alabaster vases and bowls, and a magnificent collection of 580 Egyptian and Coptic textiles including many complete garments and rugs.

Under the auspices of Captain Marshall Field, Dr. A. L. Kroeber, professor of anthropology at the University of California, was entrusted with an archaeological mission to Peru for the specific purpose of determining culture periods by means of stratigraphic methods. He arrived at Lima January 20 and left Peru July 1. The season and the quite exceptional weather conditions in February and March, resulting in swollen rivers that remained high for months subsequently, practically dictated a limitation of operations to the coast region. The area from Lima south to Nazca, a stretch of 250 miles, was selected for excavations. It comprises ten consecutive coast valleys which are: Chillón, Lima, Chilca, Mala, Asia, Canete, Chíncha, Pisco, Ica, and Nazca. Two of these valleys, Mala and Asia, are wholly unexplored. Canete, the next valley beyond them, which is considerably larger and richer, was also found to be unknown scientifically, although more or less rifled by pot-hunters. Consequently his principal efforts were concentrated on this valley at one site of which he succeeded in discovering a type of pottery and culture new to science. It is a varied type of the wide-spread ancient culture of Nazca. After some search he was fortunate in finding remains of this culture stratified below the remains of the later, but likewise prehistoric, Chíncha culture. In the valley of Lima he also discovered a stratification which proves definitely that the culture and pottery type known as Proto-Lima is earlier than the Chancay and related cultures which are most commonly found in and about Lima. These two stratifications bear on the history of the development of ancient Peruvian civilization, and, inasmuch as only about four deposits of this kind

have been heretofore encountered or at least recorded, the discovery of these two may be regarded as very fortunate and significant. One northern valley, that of Trujillo, was briefly visited as a check and balance on the work in the south. An interesting collection of 181 specimens was secured there, containing several pieces of pottery of a new type and suggesting the presence somewhere in northern Peru of a type of ancient civilization which is still unknown. Dr. Kroeber states that the archaeological exploration of Peru is much less complete than is generally supposed; not more than half of the coast and not more than one-tenth of the interior are scientifically known. The available data suffer from being disconnected. The greatest need is for exploration which is systematic and continuous in regard to the areas covered. Dr. Kroeber was aided in his work by the sympathetic co-operation of the Peruvian Government and the active support of Dr. J. C. Tello, Director of the Peruvian Museum of Archaeology. It is planned that Dr. Kroeber will visit Peru again next summer on behalf of the Institution.

It is gratifying to report that an endowment made by Julius and Augusta N. Rosenwald has enabled the Department to resume work among the North American Indians. Arrangements were made with Mr. M. G. Chandler, who for many years lived among the central Algonkian tribes, has an unusually intimate knowledge of their customs, and by adoption is a member of the Potawatomi. This tribe once occupied the site of Chicago, at the time of the first white settlement, and it seemed desirable to gather and preserve as many relics as possible of the Indians who formerly inhabited the Chicago vicinity, with a view to forming an exhibit parallel to that of the mammals and wild flowers of the Chicago region. During August, October and November, Chandler visited the Potawatomi and the related tribes, as the Menominee, Winnebago, Misstassini, and Sauk and Fox, widely scattered over Iowa, Kansas, and Michigan; the use of an automobile permitted him to reach many small detached and roaming groups of these Indians. He first camped at Crow Settlement in the Menominee Reservation, where he obtained a good Menominee collection, and then proceeded to the Winnebago settlement near Wittenberg, where several good specimens from that tribe were procured. A brief visit was paid to the Potawatomi settlement to the northeast of the Menominee Reservation, but it seemed advisable to proceed to Kansas for collecting Potawatomi material. Before his departure Chandler attended two important ceremonies of the Menominee,—a summer feast and a dream-drum ceremony. The summer feast is held by the pagan Menominee to keep up the characteristic native games of the men and women. Among the articles received from these people, and also later from the Potawatomi

are small bundles, called "Man's Business" and "Woman's Business." The former contain at least a miniature La Crosse racket, but may also include a miniature La Crosse ball, a miniature war-club, bows and arrows, or even a small canoe. Offerings of tobacco are made to these articles from time to time, for the purpose of obtaining success in games or vocations. At this summer feast the games called "Man's Business" and "Woman's Business" are played. In the morning La Crosse is played by the men, and in the afternoon bow and counters by the women. The La Crosse racket bears a certain resemblance in outline to a ball-headed war-club, the latter being the weapon carried by the Thunders. The drum ceremony was held for a rather unusual purpose. Four drums were set up within the dance enclosure with all the sacred paraphernalia which go with each drum, and representatives of the four drum societies were present. The purpose of the ceremony was to notify the Winnebago of the intention of the Menominee to present them with two of these drums. The drums were used successively by a group of musicians who passed from drum to drum in a clockwise direction; that is, following the movement of the sun, from east to south, and south to west, and west to north. At the close of the day speeches were made to the visiting Winnebago, expressing the intention of the Menominee to give them the two drums intended for them, the Winnebago making return speeches. A trip was then made to the reservation near Mayetta, Kansas. There Mr. Chandler was the guest of John Shaubena, grandson of the original Shaubena who was chief of the Potawatomi, Chippewa, and Ottawa during the Blackhawk War, at which time he proved a valuable friend to the white settlers of the Chicago region. At this reservation practically every family is from the vicinity of Chicago. They were holding their annual fair, which includes parades and dancing in costume. Many specimens were located, and those most interesting were purchased. In October, he again went to Wisconsin, stopping at various Winnebago camps. On his way there he made connection with Potawatomi related to him by adoption, who daily offered specimens in quantity and of a quality far superior to anything he had suspected them of owning. The difficulty in this region was that the distances between homes were so great and the country so wild that trails could not be traversed by automobile, so that it was not possible to visit many families in a day. He witnessed several meetings of the Medicine Lodge held in an isolated spot in Forest County, Wisconsin, and, though it is contrary to the rules of this organization to admit outsiders to the lodge, an exception was made in his favor, and he was able to take notes on the ceremony, which he hopes to write up later. The ceremony resembles the Menominee and Ojibway rites more closely

than that of the Winnebago. The last move of the expedition was most fruitful, as during this time the greatest quantity of rare Potawatomi material was collected, which now places the Museum in possession of a representative collection from this tribe.

Assistant Curator Linton left at the end of October for an ethnological exploration of the island of Madagascar, where he is planning to stay for about two years. During November he spent two weeks in England, studying the Polynesian and Madagascar collections in the British Museum of London, as well as in the museums of Cambridge and Oxford. He proceeded to Paris, where he established connection with French officials and institutions, and sailed December 16th from Marseilles for Madagascar.

BOTANY.—The Captain Marshall Field Botanical Exploration in Peru was continued during 1925 by Dr. A. Weberbauer. He collected for six weeks in February and March in the Province of Moquegua and the Department of Tacna, securing 242 numbers or over 1,000 specimens. His material is of great interest and has been organized ready for determination. Upon completion of this, the largest duplicate set still available is being sent to the Botanical Garden and Museum of Berlin in accordance with the collector's stipulation. In this connection it is very satisfactory to record that Dr. Diels, Director of the Garden has generously offered the Field Museum as complete a set as possible of essential portions of the Weberbauer botanical types collected before the war, which are deposited at Berlin. Since these specimens are not now available in this country this will be an acquisition of the greatest value to American botanists studying western South American plants.

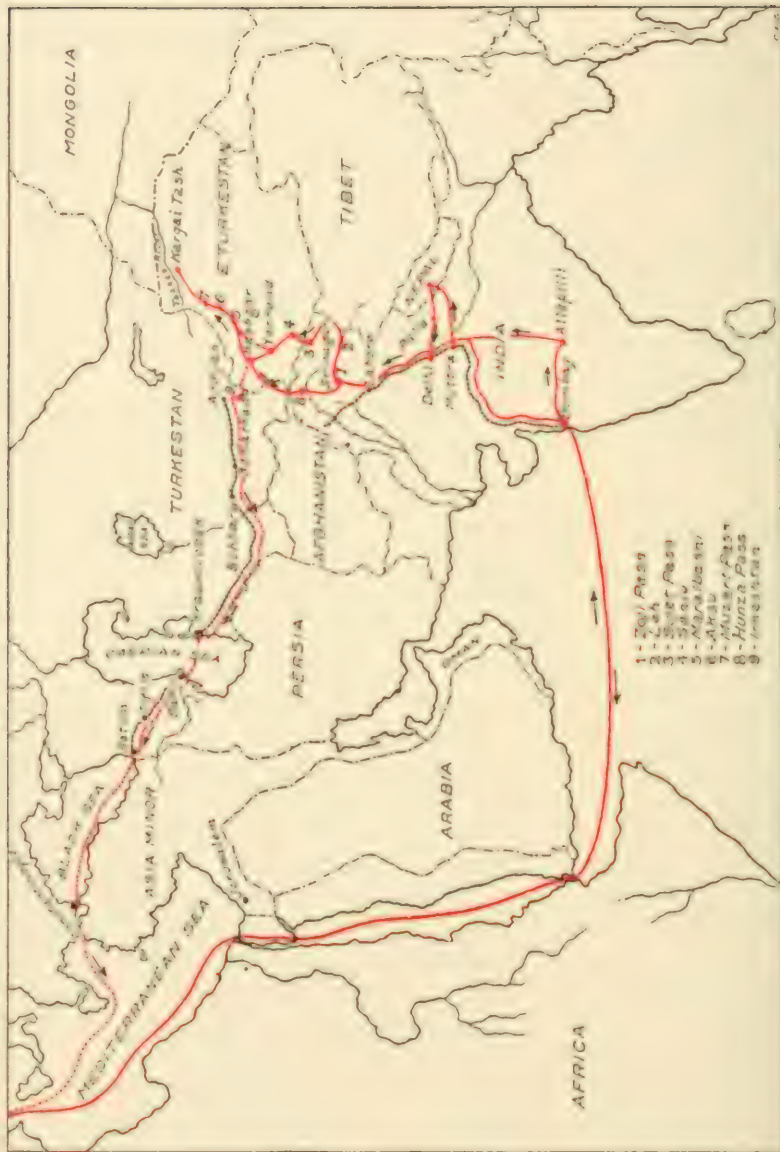
Another important addition to the herbarium of South American plants will be a set of the collections made in 1925 in Peru and Chile by Dr. F. W. Pennell under the joint auspices of The Academy of Natural Sciences of Philadelphia, the Gray Herbarium of Harvard University, Mr. Oakes Ames (for the Ames Botanical Laboratory) and the Field Museum of Natural History (under the Captain Marshall Field Fund). His work in Peru, over a period of several months, centered about Arequipa and Cuzco in southern Peru and about Canta, northeast of Lima. In Chile he collected chiefly in the Cordillera near Santiago and south as far as the island of Chiloe. He obtained 2,620 numbers or about 10,000 specimens. In a preliminary report to the Director, Dr. Pennell has stated: "If I may interpret the results by my success in obtaining Scrophulariaceae, it is evident that the collections will contain much that is new to science."

Mr. A. C. Persaud, who for some years had been collecting British Guiana woods, early in the year was obliged by sickness to give up the work which he was then carrying on along the Demerara River above Wismar. News of his death in Georgetown on July 31 was received with great regret. His reliable collections, accompanied with herbarium specimens are unique among the department's accessions of woods from tropical countries. It is only on the basis of such collections that the knowledge of foreign woods can be systematically advanced.

GEOLOGY.—During the year the Captain Marshall Field Paleontological Expedition to Argentina disbanded temporarily after storing the equipment. Some reconnaissance work was subsequently carried on by Associate Curator Riggs along the southern coast of the Province of Buenos Aires and westward in the Territory of Nequen with a view to planning future collecting. Two months were then spent by Mr. Riggs in visiting European museums on the return trip.

Summarizing the material collected by this expedition since its entry into the field in the fall of 1922, it includes fossil mammals from Eocene, Oligocene, and Miocene formations of southern Argentina and from the Pleistocene formation of Bolivia, also fossil shells and plants from the marine Oligocene and dinosaurs from the Upper Cretaceous formation of Argentina. The Pleistocene fossil mammals collected in Bolivia include skulls and partial skeletons of the horse, *Equus andeum*, the short-legged, but horse-like *Hippidium*, species of llamas and related animals, some of which approach the modern camel in size; also skulls, jaws and tusks of *Mastodon* of distinctly South American species. Along with these immigrants from other continents were collected specimens of native stocks, including skeletons of the ground sloth, *Scelidotherium*, and skulls, jaws, legs and other parts of the greater ground sloths, *Lestodon* and *Megatherium*. Carapaces and internal skeletons of the ponderous, shell-covered glyptodonts, a skeleton of a smaller armadillo and parts of the long-limbed, trunk-bearing *Macrauchenia* were also included.

From the Miocene clays and sandstones of southern Argentina there were collected skulls and parts of various ground sloths smaller in size but related to the great sloths of the Pleistocene; carapaces, skulls, legs and other parts of the lesser glyptodonts and of the armadillos. Many fine skulls and other parts of river-dwelling animals, ranging in size from that of the tapir to that of the hippopotamus are included in the collection. They belong to the genera of *Adinotherium*, *Homalodontotherium*, *Nesodon* and *Astrapotherium*. Numerous skulls, legs, feet and



JAMES SIMPSON-ROOSEVELT ASIATIC EXPEDITION.

ROUTE OF THEODORE AND KERMIT ROOSEVELT. ———

RETURNING ROUTE OF GEORGE K. CHERRIE AND SUYDAM CUTTING.

a few complete skeletons of the little cony-like protypotheres, similar specimens of rodents and of the somewhat larger flesh-eaters, are among the many bizarre animals included in these collections. More surprising are the leg bones of a gigantic bird similar in size to the Moa of New Zealand.

Of the Eocene mammals collected in the central territories of Patagonia, specimens of the great *Pyrotherium* and *Parastrapotherium* are the most notable. Specimens of these rare and little known animals include jaws, tusks, molar teeth and isolated parts of skeletons. Animals of intermediate size, including *Asmodeus*, *Leontinia*, *Astraponotus*, *Proadinotherrium*, *Rhynchippus* and others are represented by fine series of skulls. Other specimens include such mammals as the primitive flesh-eaters, the gnawers, and other inhabitants of river, forest and plain which have left no modern representatives and admit of no close comparisons. The great flesh-eating bird, *Phororachus*, is represented by a good skull and parts of the skeleton.

ZOOLOGY.—Five zoological expeditions were in the field during 1925. Two of them were of major importance, being to foreign countries and of long duration, while three of them were to points in the United States and Canada and for relatively short periods of time. All were highly successful and, although but a small part of the material collected had actually reached the Museum at the close of the year, it is evident the results of these expeditions will be among the most noteworthy in the history of the Institution.

Of first importance was the "James Simpson-Roosevelt Asiatic Expedition" to the western Himalayas, the Pamirs and Turkestan. The first plan for this expedition originated with Col. Theodore Roosevelt, Jr. and his brother Mr. Kermit Roosevelt, sons of the former President of the United States. Like their father, both the younger Roosevelts have an extraordinary interest in natural history and a knowledge of animal life far beyond that of the average sportsman. Therefore, in planning a trip for themselves, they thought immediately of giving it a scope which would make it of lasting value to science. This was beyond their private means, so they decided to affiliate themselves with a public museum of natural history and chose Field Museum. They made their desires known to President Stanley Field, and the matter was brought to the attention of Mr. James Simpson, a trustee and the donor of the Museum's well known auditorium, James Simpson Theatre. Mr. Simpson, thereupon, agreed to provide all necessary financial support for the expedition, involving no remuneration for the

Roosevelts, but making it possible for them to carry all desired equipment for general zoological collecting and to employ trained assistants to cover special fields. The trip thus became a museum expedition and was given the title "James Simpson-Roosevelt Asiatic Expedition of Field Museum of Natural History." Owing to the prominence of the principals, the expedition has received much public attention and its progress has been followed by the press of the entire world.

The party sailed from New York, April 11th, including, besides Theodore and Kermit Roosevelt, a well known naturalist, Mr. George K. Cherrie, and a volunteer photographer, Mr. Suydam Cutting. They arrived at Bombay, May 11th, and continued at once by rail and automobile to Srinagar in Kashmir. Here some days were spent in final preparations and in arranging for transport. In this they were greatly assisted by the cordial cooperation of the British Resident, Sir John Wood. May 19th, they left Srinagar with a caravan of 60 ponies and proceeded via Zoji Pass to the mountain city of Leh, which they reached without mishap about June 1st. From Leh, their course lay northward through the heart of the Himalayas. In order to maintain the organization of their caravan, it was necessary to push on rapidly and but little time was available during this part of the trip for hunting or collecting. However, they improved every brief opportunity and succeeded in obtaining several specimens of the Burrhel or Blue Sheep (*Pseudois nahura*) and the Tibetan Antelope (*Pantholops hodgsoni*). A few birds and small mammals, prepared between marches at late hours of the night, also were collected in this region. The route led across the Sassar, Karakoram, and Sujet passes and for more than two weeks the expedition was never below an altitude of 15,000 feet. Being more than two weeks in advance of the earliest regular spring caravans, the expedition encountered unusual difficulties in the way of unbroken trails, snow-fields and swollen streams. Fourteen of the ponies were lost enroute, partly through lack of endurance and partly through eating a poisonous weed. With some good fortune and much hard work, however, all difficulties were overcome and, July 5th, the party was at Sanju Bazaar in eastern Turkestan with the high Himalayas left behind. A few days later they arrived at Yarkand, the principal settlement in this part of Turkestan, where they were cordially received by local Chinese officials.

At Yarkand, the party was divided. To interview officials and prepare the way for later work when the whole expedition should reach that region, Mr. Cutting set out alone for a quick trip northwestward to Kashgar. Mr. Cherrie remained to work slowly northward across central Turkestan, stopping at convenient points to collect birds, small mammals, and reptiles. Meanwhile, the Roosevelts made haste

to reach the Thian Shan Mountains for big game hunting. They left Yarkand, July 13th, and crossed Turkestan to Aksu in twelve days, a distance of 280 miles, with many streams to ford, with stretches of desert to cross, and with hot summer weather in contrast to the cold winds of the high mountains just traversed. Leaving Aksu, July 27th, they continued northward over the Muzart Pass in the Thian Shan Mountains to the vicinity of the upper Tekkes River. Here, in the heart of southwestern Asia, they were at last enabled to devote several weeks to continuous big game hunting, and their efforts were attended with great success.

The collection of large mammals which was obtained in the Thian Shans covers a wide variety and includes a number of specimens of unusually high quality. The largest animals secured were three fine males of the Altai Wapiti, a large deer having general similarity to the American Elk or Wapiti. Other game included the Thian Shan Sheep (*Ovis karelini*), the Siberian Roe Deer, and the Asiatic Brown Bear; but perhaps most important was a series of the Thian Shan Ibex, including old males, females, and young and fulfilling all the exacting requirements of a comprehensive museum group. One of the male ibexes shot by Mr. Kermit Roosevelt is reported to have horns $59\frac{1}{2}$ inches in length, which is a record for this species and for all ibexes, the largest one previously known having a measurement of 58 inches.

Leaving the Thian Shans, the Roosevelts hurried on to arrive at Kashgar, September 28th, and there to make arrangements to hunt in the Russian Pamirs for the famous Marco Polo's Sheep, one of the principal objects of the expedition. Although formerly fairly common in the Pamirs, this sheep has become increasingly difficult to obtain, and native reports in Kashgar were discouraging, so it was with some misgivings that this hunt was undertaken, especially since success was to be attained only in the limited time remaining before the closing of the passes to bar return to India. In three weeks' time, however, the hunters went from Kashgar into the Russian Pamirs and came out at Misgar to send a message, October 23rd, stating that they had obtained four fine rams of Marco Polo Sheep and several younger animals, sufficient for a museum group. Thence they hastened back to India via the Hunza Pass, having received special permission to do so through the courtesy of the Viceroy and Sir John Wood. Their safe arrival in Kashmir was reported November 3rd.

While the Roosevelts were finishing work in the Thian Shans and making their dash into the Pamirs, Mr. Cherrie gradually worked on to the Thian Shans and was met there by Mr. Cutting, September 7th.

Further collecting of birds and small mammals was done there and then they returned to Kashgar whence they started homeward via Russian Turkestan and Constantinople, carrying with them practically the entire collection made by the expedition. This included some 21 skins, skulls and bones of large game, 700 to 1,000 skins of birds and small mammals, and tanks of reptiles and amphibians preserved in alcohol or formaldehyde. They journeyed overland northwestward and crossed the Russian border at Irkeshtan, November 6th. Ten days later they reached the railhead at Andijan and there arranged for railway transport of themselves and the collections to Batum on the Black Sea. The route was via Samarkand and Bokhara to Krasnovodsk on the Caspian Sea, thence across the Caspian to Baku and to Batum via Tiflis. The baggage, including the collections, was delayed in transit, and Mr. Cherrie, after proceeding to Constantinople with Mr. Cutting, was obliged to return to Batum to insure its safe delivery. Mr. Cutting returned direct to the United States and reports from Mr. Cherrie at the close of the year were to the effect that the delayed baggage was intact and forthcoming.

After returning to India, the Roosevelts engaged in a short hunt in which they secured four male specimens of the Barasingha or Swamp Deer. In late December they planned hunting in the Central Provinces accompanied by the head forester of India, Sir Henry Farrington. Still later, it was their intention to go to the northern province of Nepal and hunt with the British Resident with the special object of securing the Indian Rhinoceros.

Complete returns from the Simpson-Roosevelt Expedition are not available, but in the latest report, December 2nd, the list of large mammals obtained is as follows: Thian Shan Ibex, 12 specimens; Marco Polo's Sheep, 8; Thian Shan Sheep, 3; Burrhel or Blue Sheep, 3; Tibetan Antelope or Chiru, 3; Asiatic Wapiti, 3; Siberian Roe Deer, 4; Barasingha Deer, 4; Asiatic Brown Bear, 2; Himalayan Black Bear, 2.

The Captain Marshall Field Central African Expedition, which began work in 1924, continued in the field throughout 1925 under the direction of Mr. Edmund Heller and Mrs. Hilda H. Heller. The months of January and February were spent at high altitudes on Mount Ruwenzori, one of the highest mountains in Africa and situated near the border line between the arid plains and the great central rain forest. Camps were established at six different altitudes in the Butego valley on this mountain and a large collection was made, including some 800 mammals and a considerable number of batrachians and reptiles. Three days were spent at the snowline at an elevation of 12,000 feet and, fortu-



EGYPTIAN BRONZE STATUE OF THE LION-HEADED GODDESS SEKHMET.
BEFORE AND AFTER ELECTROCHEMICAL TREATMENT.

Two feet high.

nately, weather conditions were good. Travel of this kind is difficult in Africa since the elevated regions are uninhabited and but little help can be had from the natives of the warm lowlands who are very averse to the cold and snow of the heights.

From Ruwenzori the expedition went west into the Ituri forest and spent much time in the country of the Wambute tribe and the neighboring pigmies. After considerable time establishing friendly relations with the pigmies, their aid was enlisted to secure a specimen of that strange animal known as the Okapi, perhaps the most difficult to obtain of all large mammals now living. It is found only in dense dark forests and is very shy and elusive. Its habits are known only to the pigmies who inhabit these forests and hunt it with spears. A successful hunt was finally organized and a fine male Okapi, speared by the pigmies, was obtained and its skin preserved in excellent condition.

Later in the year the expedition moved eastward out of Belgian territory into northwestern Uganda. Here in the district of Kigezi large general collections were made under better climatic conditions than those of the Congo forest. British officials in Uganda afforded cordial cooperation and through a permit issued by the Governor, Mr. Heller secured a large male gorilla on the east side of the volcanoes near the boundary between Uganda and the Congo.

The specimens collected by the African expedition have been thoroughly cured, hermetically sealed, and stored at convenient points to be brought together finally and transported to the United States under personal escort after field work is completed. At the close of the year, the expedition was about to start back into the Congo to work in the region west of Lake Kivu with the special object of securing further specimens of gorillas.

A short expedition to southern Georgia was made during the summer by Mr. Leon L. Walters, taxidermist of the Division of Reptiles. The special object was material for a group showing the American alligator and its nest and eggs. Headquarters were made at Beachton, Georgia, where Mr. Walters enjoyed the hospitality and generous assistance of Mr. H. L. Stoddard and his associates of the U. S. Biological Survey. Alligators were by no means easy to secure, and all three of the methods in use by professional alligator hunters were employed. The first method is that of hunting at night from a boat with a headlight which "shines" the alligator's eyes. A second method is to bait tarpon or shark hooks, arranging them as a set, just above the surface of the water. The third and most interesting method, called poling, was also the most successful. In summer the larger alligators take up residence in holes in the marshes

of conditions of study, exchange and storage collections. A total of seventy-three cases were installed for exhibition during this year.

An event of the year was the opening on the first of November of the new Micronesian and Polynesian Hall (Hall F on the ground floor), to which Assistant Curator Linton had devoted his energy until his departure for Madagascar. The chief attraction of this hall consists of an original Maori council-house from New Zealand, which was acquired by the Museum as far back as 1904, but which, for lack of space, could not be erected in the old building. Very few of these council houses have been preserved, and this house is one of the finest in existence. It is nearly sixty feet long with a width of twenty feet and an internal height of fourteen feet. It is the only Maori building extant that has a completely carved front, and its decorations show Maori art at its best. The mechanical skill and artistic ability of the Maori were lavished on the construction of his great council houses which were primarily council and guest houses, but which were also used as dormitories. They were usually erected as memorials of some great event, such as the birth of an heir to the principal chief of the tribe. The materials were selected with great care, the framework being hewn from trees which had been buried in river beds until they had lost their sap wood and become thoroughly seasoned. The ridge pole was the most important part, and was always made from a single log. That of this house is nearly sixty feet long, and weighs a ton and a half. All the upright timbers are carved with conventionalized figures of ancestors, while the rafters and ridge pole are painted with scroll designs. The spaces between the side posts are filled with panels of woven reeds. Long beds were made along either side of the house, and there was a small fireplace near the door.

The hall contains forty exhibition-cases. Ten of these have been grouped along the sides of the house; nine of these cases illustrate the highly developed culture of the Maori with good examples of their feather robes, wood carvings, weapons, stone and jade implements. The inhabitants of the Gilbert Islands are well represented by excellent suits of armor, weapons, clothing and ornaments, matting, basketry, utensils, and fishing appliances. Similar material is shown from the Marshall and Caroline Archipelago, Matty, Durour, and outlying Micronesian islands. The cultures of Fiji and Samoa are well illustrated, and to some extent also those of Hawaii, Marquesas, and Mangaia. A guidebook to these exhibits has been prepared by Assistant Curator Linton and will be brought out shortly.

The light-colored screens which after several experiments were devised and used in this hall throughout may be designated as a great

improvement, and are undoubtedly preferable to black screens in the halls with artificial lighting.

Good progress has been made with the installation of the Arthur B. Jones collection secured by Dr. F. C. Cole in 1923. Eight cases illustrating the culture of the Toba Batak of Sumatra, six cases of textiles, costumes and household utensils of the Menangkabau, Sumatra, and four cases showing the primitive cultures of the Sakai and Semang in the Malay Peninsula, have been installed. Three built-in cases were constructed in Hall G which is to contain the Arthur B. Jones collection. One of these has been erected in the center of the hall, and is divided into three sections which will be used for a Menangkabau miniature village group, a life-size group of Pygmies engaged in making fire, and a bride and groom of the Menangkabau in their ceremonial costumes. The built-in case in the northeast corner of the hall will harbor the Javanese orchestra formerly in Hall I, and that in the northwest corner holds the group of Bagobo weavers which is now almost complete. It is hoped that this hall will be completed in the first part of next year. Seven cases are already accessible to the public, being placed alongside the corridor dividing the east wing from the central section of the ground floor.

A built-in case, which on account of its dimensions (32 x 10 feet, 14 feet high in the interior) is a veritable room in itself, has been constructed in the Ernest R. Graham Hall at the south end of the recess in which the two Mastaba tombs are set. It is provided with a door on the west side which readily gives access to the room and permits easy shifting of exhibition objects. The top lights hidden behind ground glass insure an even diffusion of light over the exhibits. For the present the large granite statue of the Lion-headed Goddess Sekhmet, presented by Mr. Frank H. Cook, and selected sculptured bas-reliefs from the tomb of Bekenranef, a nobleman of high rank of the twenty-sixth dynasty (about 600 B.C.), are displayed in this case. In front of it and from the top of the view glass extending up to the ceiling is a transom case 30 feet long, 4 feet high, and 1 foot deep, likewise illuminated by concealed top-lights and containing a colored reproduction of a bas-relief which represents the procession of the sacred boat from Queen Hatshepsut's temple of Deir-el-Bahri (eighteenth dynasty). The oil-painting by Andrew McCallum, depicting the Rock-temple of Aboo Simbel, presented by Mr. Thomas S. Hughes this year, has been hung on a pilaster on the east side of the Egyptian Hall. A new label has been provided for the reproduction of the Rosetta Stone.

Several notable additions and changes were made in Stanley Field Hall, to render accessible to the public the results of recent expeditions.

A silver zebu acquired by the Captain Marshall Field Expedition to China (illustrated in Plate XLII of the Annual Report for 1923) was added to the Chinese antiquities in Case 7. The Roman bronze table and other bronze and glass objects from Boscoreale were temporarily removed from Case 6 to make room for the Egyptian statue of the architect Senmut acquired for the Museum by Professor Breasted. A selection from the important collection of ancient Egyptian and Coptic textiles has been displayed in Case 16. These include an ancient rug, two linen tunics decorated with medallions and borders in tapestry weave, an embroidery in white on purple ground, and many smaller pieces in well preserved bright colors, some even of silk and silk mixed with linen. The designs are very interesting and consist principally of vine-leaves, grapes, hares, birds, huntmen on horseback, figures of women and children. One panel is decorated with the figure of a dancing-girl brandishing a tambourine.

In Edward E. Ayer Hall a case of Etruscan pottery was installed, and re-arrangements were made in three cases of Boscoreale bronzes.

The three copper weapons from Alaska presented by Mr. Homer E. Sargent have been added to Case 8 of Mary D. Sturges Hall. The Karok buckskin skirt and apron presented by Miss G. Nicholson have been installed in Case 2 of Hall 6; and the Saltillo serape, a gift from Mr. Sargent, in Case 1 of Hall 8.

Two cases illustrating the Tobacco Society and Medicine bundles of the Crow were installed, completely labeled and placed in Cases 23 and 24 of Hall 5. These contain the exchange material received this year from Messrs. M. G. Chandler and W. Wildschut, combined with material previously collected for the Museum by Mr. S. C. Simms.

Two cases, one showing clothing from Huon Gulf, northeastern Guinea, another of household and industrial objects from the North Coast of New Guinea, have been added to Joseph N. Field Hall.

The addition of 115 objects made by Mr. Edward E. Ayer last year to his pewter collection necessitated the installation of a new case and re-installation in four cases in Hall 23. This room now presents a somewhat crowded appearance, and as the new type of built-in case has proved successful, it has been decided to discard the eleven standard cases and replace them with specially built cases running along the walls and illuminated by encased top-lights.

The collection of rhinoceros-horn cups from China, presented by Mr. John J. Mitchell, was catalogued and labeled immediately and placed on exhibition in two standard cases in the center of Hall 24 (East Gallery). A case of Chinese wood, root and bamboo carvings and a case

of Chinese fans were installed, and will be placed on view as soon as the labels have been printed.

After removal of the model of the Moon from the south end of the West Gallery, the space thus gained was occupied by four cases containing Chinese ivories, baskets, and lacquers. The installation of the exhibit illustrating how crickets are kept in China for singing and fighting purposes has been completed, and the case placed on exhibition at the south end of the East Gallery. Grateful acknowledgement is made to Associate Curator Gerhard for preparing specimens of the insects for exhibition and to Dr. James A. G. Rehn of the Academy of Natural Sciences of Philadelphia for determining their scientific names. In the present state of the work it is impossible to maintain a correct sequence of the exhibition cases in the East and West Galleries, as additions and changes are constantly made and as, in accordance with the progress of work in the new halls on the ground floor, exhibits from Java, Africa, and India have to be transferred from the West Gallery to their new locations. At the completion of this task, it will be possible to re-arrange the East and West Galleries methodically. They will ultimately be entirely devoted to China and Tibet.

Room 38 has been converted into a workshop for receiving, laying out and installing new material. Nine old table-cases which contained Mexican and South American collections in storage were vacated and discarded, the material being placed in the storage room on the ground floor. This resulted in a great improvement of working conditions and made way for six more layout tables in Room 38. It now accommodates a total of 18 layout tables, whereby the work of the Department is greatly facilitated. Twelve layout tables were made for the offices and workrooms of assistant curators.

All American archaeological material, as far as it is not on exhibition, is now concentrated in the storage room on the ground floor. All exhibition cases temporarily placed in the clerestories were stripped of material which was arranged, sorted, stored, and identified with proper labels. All collections in work-rooms and storage rooms on the third floor have been subjected to a revised arrangement.

Last February the departmental library was removed from Room 39 in the southeast corner of the building, where it had been housed for four years, and was permanently transferred to the new racks in Room 52 adjoining the curator's office. This arrangement is very satisfactory, as it gives the curator without loss of time direct access to the library and places it under his immediate supervision. New cabinets were procured to contain maps, the catalogue cards, and the inventory volumes

with the accession files, in keeping with the style of the other office furniture.

In Room 35, the storage room for physical anthropology, new racks with trays were made for the accommodation of skulls and skeletal material. There are four sections, each consisting of fourteen cabinets, seven on each side. Each of these fifty-six cabinets contains eleven trays of white pine, making a total of 616 trays, which are calculated to hold about nine thousand skulls. A label-holder has been provided for each tray.

Modeler J. G. Prasuhn made progress on the miniature group of a New Guinea village, completing the men's assembly house, the young men's dormitory, and an outrigger canoe with sail. The group of Bagobo weavers from the Philippines, the figures of which were cast years ago in the old building, has been installed in a built-in case in Hall H; all the accessories were made for the group, the figures dressed and properly posed.

Two large and several small bronze figures from the Egyptian collection developed during the year bad cases of malignant patina which threatened to destroy them. These have been successfully treated by Associate Curator H. W. Nichols in the chemical laboratory of the Department of Geology by means of the recently perfected electrolytic process. Familiarity with the process was acquired by treating a number of smaller bronzes to remove disfiguring incrustations. The results of this process have been so successful that not only has the dangerous progressive corrosion been eliminated, but also much elaborate detail of unsuspected designs has been discovered. The experience with these bronzes has been such that there will be no hesitation in applying the process in the future to whatever bronzes may need it.

Modeler Prasuhn restored 24 objects from Kish, 19 from Egypt, 4 from Italy, 7 from Mexico, 41 from China, and 9 from Pacific Islands. Mr. T. Ito restored 144 pieces of Peruvian pottery, 40 pieces of pottery, stone, and bronze from Kish, 18 pieces of Cameroon pottery, 11 pieces of pewter, and 6 Japanese ivories. 10,931 numbers were marked on specimens.

BOTANY.—In the exhibition halls of the Department of Botany the task of reinstallation which was begun last year has been carried forward as rapidly as possible with the elimination of bottled specimens and black backgrounds. The Hall of Plant Life (Hall 29) has thus been completely reinstalled as far as possible with the material on hand and numerous additions have been made to the plant reproductions and models which are the conspicuous feature in the hall. These



UNDERSEA GROUP OF SHARKS AND RAYS.

COLLECTED BY THE CAPTAIN MARSHALL FIELD ZOOLOGICAL EXPEDITION TO TEXAS.

Taxidermy and background by Mr. Leon L. Pray.

include some common plants of the northern temperate zone, such as the paper birch, crab apple and sugar beet, as well as many less familiar subtropical and tropical ones.

The spiderworts are now represented by a reproduction of the large and attractive South American *Dichorisandra*, to which will be added one of the more inconspicuous but better known forms. Other additions to the monocotyledons are a flowering *Tacca*, a yam vine bearing flowers and aerial tubers, a *Schomburgkia*, a West Indian orchid chosen for its large flask-like water storage organs or pseudobulbs, the fruiting spadices of a screwpine or *Pandanus* and of a Palmyra palm, the latter interesting among the Palms on account of its large egg-plant-like fruits, which were obtained in the Georgetown Botanical Garden by the Stanley Field Guiana Expedition in 1922. A series of sections of a sprouting coconut showing interesting stages in the germination have also been added to the palms exhibit. At the time the *Granadilla* vine was reproduced in its flowering condition good fruits were not obtainable but these were readily secured in British Guiana where this passion flower is commonly cultivated and have now been reproduced and added to the vine. A section of a *Granadilla* and some of the lesser *Passiflora* fruits have also been added to this exhibit.

A flowering branch of the spiny *Catesbaea* with its long pendulous flowers and small orange-like fruits has been added to the case containing the Madder family. The Borages have been illustrated by a reproduction of a flowering and fruiting branch of the Scarlet *Cordia*, or Geiger Tree, obtained last year in Key West.

To the Spurges there has been added a fruiting branchlet of the Tung-oil tree which is of such great importance to the modern varnish industry and has recently been introduced into commercial cultivation in the United States.

A flowering branch of the Frangipani and of a related British Guiana forest tree (*Plumiera articulata*) with its large curved paired pods have been reproduced and added to the case containing the Dogbanes.

The Myrtaceae have hitherto been represented chiefly by the Eucalyptus and the Guava, but fruiting branches of the bright red pear-shaped Malay- or Malacca-apple, (*Eugenia malaccensis*), the "Curasson-apple," (*E. javanica*) obtained in Surinam and the "Java-plum" (*E. jambolana*) from the Plant and Seed Introduction Station in Florida have been added during the year and installed in their appropriate place.

The Cactus exhibit has been enhanced by the addition of a modeled flowering tip of a candelabra cactus (*Cereus pentagonus*). In one of the expanded flowers of this model is to be seen a specimen of the long-

tongued bat that in its native region is a visitor to this night blooming cactus either for the nectar or for the insects, or both, to be gathered within the large blossoms. Another addition to the cactus case is a *Rhipsalis* from Trinidad, a slender epiphytic un-cactus-like plant, which hangs like masses of green threads from the branches of the trees where it grows.

To the Bladderworts there has been added a flowering *Utricularia* plant, mounted together with an enlarged section of its flower and a model of a single enlarged bladder or trap with its typical catch.

A piece of a branch of a "cluster-fig" (*Ficus glomerata*) from India with its grape-like bunches of fruit, some white and purple figs, a sugar beet from Illinois, a sugar cane from Louisiana for the sugar exhibits, are also on the list of plant reproductions added during the year.

A young unexpanded leaf of the *Victoria regia* has been modeled for this group which was prepared last year. A section of the *Victoria regia* flower constitutes an interesting addition to the flower forms represented by models in the Hall of Plant Life. This model and the young leaf of the *Victoria regia* were the last of the many creditable pieces of work produced by David Henner, before his untimely death by accidental drowning while swimming at the Dunes last summer. Mr. Henner was one of the most talented and able of the artists and preparators who by their skill have contributed to the plant reproductions in this hall.

In the adjoining hall, Hall 25, containing the palms on one side, the vegetable food products on the other, reinstallation has been begun with the cane and beet sugar exhibits. In the economic collections the fats, oils, sugars and wood distillation products have received special attention. Typical samples have been selected and sealed in glass tubes for exhibition.

In the Herbarium some further progress has been made in the study of the 1922 and 1923 Peruvian collections by botanists at other institutions (cf. 1924 Annual Report of the Director, 314, 1925) and several have undertaken the determination of further groups: Mr. E. P. Killip, U. S. National Museum, is identifying the *Acanthaceae*, *Amaryllidaceae*, *Aristolochiaceae*, *Brunelliaceae*, *Convolvulaceae*, *Coriariaceae*, *Dilleniaceae*, *Hypericaceae*, *Juncaceae*, *Lacistemaceae*, *Liliaceae*, *Loranthaceae* (excluding *Phoradendron*), *Myricaceae*, *Myrsinaceae*, *Myrtaceae*, *Rosaceae* (excluding *Rubus* and *Hesperomeles*), *Styracaceae*, *Tropaeolaceae* and *Vitaceae*; Dr. J. N. Rose, U. S. National Museum, has assumed responsibility for the genera *Hoffmanseggia* and *Caesalpinia* and the subfamily *Mimoseae*; Prof. E. M. Gilbert, University of Wisconsin, is studying a number of the fleshy fungi; Dr. I. M. Johnston, Gray Herbarium, has

named a small miscellaneous collection in addition to his special groups. The Museum has published a short paper by Mr. J. F. Macbride on the *Psoraleas* (Publ. 231 Bot.) together with notes on a few other species, mostly legumes.

The principal organization work of the year in the herbarium was the preparation for study of the Gaumer collections made from 1917 to 1921 in Yucatan. The determination of these valuable sets has kindly been undertaken by the botanical staff of the U. S. National Museum, particularly by Dr. Paul C. Standley, whose especial fitness for this work is indicated by his well known and admirable volumes on the woody plants of Mexico. The earlier Gaumer collections, prior to 1917, were largely studied by the late Dr. Millspaugh, but for various reasons he did not have the opportunity at the time to continue this investigation. These recent collections, in so far as determined, total 1,189 sheets. There are about eight duplicate sets that will be available for distribution in exchange with other botanical institutions when the clerical work connected with their organization is consummated.

The herbarium specimens of Illinois plants finally have all been withdrawn from the general collections and now form the basis for an herbarium which it is hoped will ultimately include a specimen of every species known to grow in the state. This special collection has been very creditably reorganized by Mr. Carl Neuberth so that it is now available for ready reference. Many additions, however, must be made before it will represent adequately the state flora.

GEOLOGY.—To the geological exhibits in Stanley Field Hall was added a case, one-half of which was devoted to models of dinosaurs and bones and tracks of these animals. In the other half of the case a series of fossil crinoids, mostly large specimens from the Borden collection, was installed. A number of specimens of fossil pine cones and branches from Patagonia collected by the Captain Marshall Field Paleontological Expedition to that country and some large fossil invertebrates collected by the same expedition were installed in another case in this hall. Most of the specimens presented by Mr. William J. Chalmers during the year were installed in the cases of the crystal collection and of systematic minerals in Hall 34. In this connection a rearrangement of the contents of the crystal collection cases was made and about 200 new labels were installed. The specimens of the group of hydrous silicates, numbering 148, in this hall, were mounted on individual blocks upon a screen. New specimens received during the year were added to a number of groups in this hall.

In Skiff Hall the specimens in the bays of ten cases were mounted on individual blocks and brought nearer to the front. The labels of these specimens were correspondingly raised by means of wire supports. Specimens in the upright sections of eight cases were provided with an improved form of blocks in continuation of the work of last year. The cases remounted in this manner this year were those of iron, copper, lead, zinc, mercury, tin, nickel and rare-earth ores. They contained 1,028 specimens. New material in this Hall and in Hall 36 has been installed as fast as it was received. The asbestos collections in Skiff Hall were enlarged by the installation of additional specimens of prepared asbestos and by the addition of a series illustrating the preparation and use of rock wool. The lubricating oils, clays, peat and marble exhibits were also enlarged by the addition of newly acquired material. In connection with the installation of new labels for the iron blast furnace models, specimens of iron ore and manufactured iron made in Catalan forges in use in Brazil and collected by the Captain Marshall Field Brazilian Expedition of 1922 were installed adjoining the model of this forge. In addition to a large general label for the cement plant model, a series of six mahogany labels with gold lettering was installed within the case to explain briefly the nature of each group of machine shown. The large stump of the tree obtained from the coal mine at Zeigler, Illinois, presented by Mr. Walter G. Zoller, was mounted on a mahogany base and installed in Hall 36 in proximity to the general coal exhibit. To the model in this hall illustrating the formation of peat, a base representing underlying rock was added. To the exhibit of diamonds and associated rocks, there were added three cut diamonds and some associated minerals from the Murfreesboro, Arkansas, mines, presented by Messrs. Howard A. Millar and Austin Q. Millar.

As rapidly as they have been prepared for exhibition, the fossil vertebrates collected by the Captain Marshall Field Paleontological Expeditions in Argentina and Bolivia have been installed in Hall 38. Two large dinosaur leg bones, each over six feet in length and weighing 930 and 740 pounds respectively, were mounted on individual bases and placed adjoining the large dinosaur skeleton. Among vertebrates of Tertiary age, an entire case has been installed with specimens from the South American expeditions. These included a fossil whale skull, six and one-half feet in length, a beautifully ornamented carapace, twenty-eight inches in length, of an extinct armadillo, and several smaller specimens. A complete list is as follows: One carapace of the armored mammal, *Propalaeohoplophorus*; skulls of the South American fossil mammals, *Nesodon*, *Adinotherium*, *Proeutatus*, *Hapalops* and *Pachurukhos*; jaws

of *Pyrotherium* and of *Neoromys*; skull and jaws of a fossil baleen whale of undetermined species.

The skull of the baleen whale was collected from a marine formation (Patagonian Beds) which caps the pampas of Patagonia and is extended over a wide area. In this formation are found fossil whales of various kinds, immense oyster shells and other fossils of marine origin. Some of these fossil shells may be seen attached to the skull. This animal was one of the baleen, or whalebone whales which are still common in the south Atlantic and which may be frequently found stranded on the shores of Patagonia. These specimens are interesting not only as fossil animals but also in contributing unmistakable evidence of the marine origin of the great series of clays and sandstones of Patagonia which now lie as much as two thousand feet above high tide and form the surface of wide pampa-plateaus. The specimen obtained is of smaller size than the modern baleen whale and belongs to an extinct species not yet determined.

The preparation of the above specimens and of a large carapace, five feet in length, of a species of *Glyptodon* collected in Bolivia, comprise the major activities carried on in the laboratory of vertebrate paleontology during the year. The shell or carapace of the *Glyptodon* was collected in the Tarija Valley of southern Bolivia. This shell formed the body-covering of a huge animal which was common in Pliocene and Pleistocene times. *Glyptodon* belonged to a family of extinct animals (*Glyptodonts*), which at that period ranged from southern United States to the southern extremity of Argentina. In addition to their great size the *Glyptodonts* are of interest because of the horny covering which sheathed the head, body and tail and served at once as a covering and as a defensive armor. This characteristic it shared with the smaller *armadillo*, but carried the development one degree farther in having the bony dermal plates of which the shell is composed joined by sutures to form a rigid carapace. This carapace was doubtless covered outwardly with horny plates, which gave the armor a smooth and elastic surface. The top of the head was covered with a similar shield; the tail was enclosed in a series of overlapping rings. Protected in this way, the *Glyptodon* had but to crouch upon the ground, with head and legs drawn into the shell, and so remain secure from attack of any flesh-eating animal of his time. No doubt this immunity accounts for the long survival of these sluggish creatures and for their distribution over two continents.

Construction of a model of a typical brickyard was undertaken by Associate Curator Nichols in the latter part of the year. Preliminary inquiries brought out the fact that while a model of a small, simple

yard of the kind that was common some years ago would demonstrate clearly the principles upon which the industry is based, such a model would be misleading as an illustration of modern practice, since success in the present day brick industry depends upon quantity production and the use of elaborate labor-saving equipment. Therefore, it was decided to model a large, well-equipped modern yard. President William Schlake of the Illinois Brick Co., kindly offered hearty cooperation and after investigation, Yard No. 22 of this company at Blue Island, Illinois, was selected as especially suitable for reproduction. Surveys of the yard and a contour map of the yard and the clay pits were made by the Associate Curator. Superintendent Lambert and other officials of the company cordially assisted in this work. Numerous photographs were taken of details and sketches and measurements of the kiln sheds and buildings were made in order to insure accuracy of modelling. The model is now under construction. It is twelve feet long and three feet, six inches wide. It is on a scale of twelve and one-half feet to the inch. This scale makes human figures about one-half of an inch in height, and details of the machinery are readily visible. The ground and clay pits have been modelled in cement. The elaborately framed kiln sheds have been reproduced by the use of sheet copper and copper wire. The use of this material has enabled the elaborate framing of the timbers to be faithfully reproduced. There are also represented kilns in various stages of building, burning and removal and these in sufficient detail so that the methods of piling the brick are shown as well as the elaborate piping of the oil-burning equipment. Features still to be represented include models of the brick-making machines, dryers, power plant, steam shovels and accessory buildings.

A relief map of the rock surface under Chicago has also been modelled in the Department from data obtained from the Chicago City Department of Engineering. This relief represents the rock surface of the territory from Lawrence Avenue on the north to Lake Calumet on the south and from 56th Avenue on the west to points in Lake Michigan several miles east of the shore line. The horizontal scale of the model is eight miles to the inch and the vertical scale ten times the horizontal.

In the chemical laboratory quantitative analyses of five iron meteorites were made by the Associate Curator. Analyses of a gum from the Hopewell Mounds, of a specimen of Chinese cement and numerous qualitative tests for visitors or correspondents of the Museum were also made in this laboratory. Ten iron meteorite sections were etched. Treatment of antique bronzes for checking corrosion and restoring their surface was undertaken during the latter part of this year in this labora-

tory and very satisfactory results obtained. The method is an electrolytic and chemical one chiefly devised by the Metropolitan Museum of Art of New York City. For carrying on the work here and for permanent use a Weston voltmeter and ammeter with electrodes, switches and containers were added to the equipment of the laboratory. Other additions to the laboratory equipment included a filter drying closet and a small crucible furnace.

The lighting of the Department library was improved by providing it with five 200 watt reflectors. The office and library of the Associate Curator were provided with 240 feet of oak shelving. Five radio photo-logues for the Chicago Daily News were given by members of the Department staff during the year.

ZOOLOGY.—Installation in the Department of Zoology included several large groups of mammals, one systematic case of mammals, two systematic cases of birds, one group of reptiles, and one group of fishes. In addition, a number of single animals have been prepared, some of which have been installed and others are awaiting cases or rearrangement of space. In all, therefore, the zoological exhibits have received an unusual amount of addition and improvement.

The mammal group of greatest interest is perhaps that of the man-eating lions. The specimens for this group are the actual individuals described by Colonel J. H. Patterson in his book "The Man-Eaters of Tsavo." These animals, two large males of the short-haired maneless type found in the hot semi-arid coast of East Africa, killed and, in most cases, devoured more than 130 human beings. Their story is a most extraordinary one and they are perhaps the most famous of all lions. Their skins and skulls were purchased from Colonel Patterson by President Stanley Field and presented to the Museum. They had been preserved for a number of years and were not prepared originally with a view to museum exhibition. Therefore they offered unusual difficulty to the taxidermist and were mounted only by the exercise of much painstaking care and skillful manipulation. This was accomplished by Taxidermist Julius Friesser with the assistance of Mr. H. C. Holling, the result forming a striking addition to the groups of African game animals in Hall 22. A slight rearrangement of the exhibits in this hall was made in this connection. The group of Beisa Antelopes was removed from the south half of the hall to the north, thus bringing practically all the hoofed animals into the north half and leaving carnivores and primates for the south half. The group of Beisas was reinstalled in the northeast corner of the hall and provided with plain backgrounds on two sides which serve to improve the lighting of the group.

The beaver group was removed from its open floor case and reinstalled in a new position in the northeast corner of Hall 16. Here it was placed in a built-in section with a single view glass, the background was extended on each side and effective lighting provided, altogether making it a much improved installation. On the opposite side of the hall, in a similar situation, there was installed the Jaguar and Capybara group, material for which was collected by a museum expedition to Venezuela some years ago, but which had never been exhibited. The background, which had been painted for a different style of installation, was extended to the sides of the enclosure and the group arranged as a "built-in" exhibit. The scene shown is a tropical jungle of mangroves and ferns at the edge of a pool of water. The Capybara, largest of rodents, is represented by a family of two adults and several young. At one side, partly covered by the dense vegetation, a jaguar is stealthily approaching its unsuspecting prey. The whole effect gives an excellent and characteristic impression of life in the hot lowlands of the South American tropics.

A special exhibit of the "Mammals of the Chicago Area" was prepared early in the year and installed in a single case in Stanley Field Hall. The area included covers a radius of fifty miles from the center of the city and practically all of the thirty-nine species known to occur there are shown. The larger species, as bears and deer, which are extinct in the area, are not shown. Each species has an individual setting with sufficient accessories to give it an attractive appearance and to indicate or at least suggest some of its habits and locality preferences. The case is of especial interest to local naturalists, and it is hoped will be of value in connection with the Museum's work with school children.

The Olympic Elk group, preparation of which has been subject to numerous interruptions, was advanced during the year, but final installation was not accomplished. Space for it was assigned at the south end of Pullman Hall and all preliminary construction completed.

Rearrangement of the systematic exhibit of mammals in Hall 15 was continued and thirteen cases there were reinstalled and cases of old style design eliminated. A number of single mammals were mounted, only a part of which were installed. Among them were specimens of the Brazilian Red Wolf, the Chinchilla, and the Argentine Viscacha obtained by recent South American expeditions. Awaiting installation are an Alaskan White Sheep, a Chilean Huemul, Ouakari Monkey, Tibetan Gazelle, Peruvian Tayra, and several smaller mammals.

Two cases of North American birds were installed during the year as a beginning of the proposed revision of the systematic exhibit of birds in Hall 21. The first of these was a case of raptorial birds, including birds



TROPICAL VEGETATION ON FORMERLY CLEARED GROUND ON THE DEMERARA RIVER.
THE MUSEUM'S LATE COLLECTOR, A. C. PERSAUD, IN THE FOREGROUND.

of this class previously exhibited temporarily in Stanley Field Hall. All the important species of eagles, hawks, and falcons found in North America north of Mexico are shown. Species occurring in the state of Illinois have a distinctive mark on the label and thus the previous system of separate exhibits of North American and Illinois birds is rendered unnecessary. Shelves are dispensed with and the birds are disposed on natural perches affording opportunity for pleasing arrangement, proper association of related species and great variety of posing. A second case of this series was installed late in the year, containing on one side the North American owls (23 specimens) and on the other the woodpeckers (48 specimens). In a few instances, not only the distinct species but some of the more important geographic races or subspecies are shown. Although the exhibit is a systematic one, it is possible also to introduce occasional features illustrating particular habits of individual species. A notable example of this sort is found on the screen of woodpeckers, where the California Woodpecker is mounted on a section of a telegraph pole, illustrating the well known but very interesting habit which this bird has of storing acorns in standing trees or poles. The section of pole, thickly studded with acorns, was collected and presented by Mr. R. H. Tuttle of San Bernardino at the instance of Mr. Edward E. Ayer.

The group of American White Pelicans, which was one of the very few exhibits suffering some damage during removal from the old Museum building, was brought again to first class condition by substituting for the old ones three newly mounted pelicans especially collected for the purpose by Taxidermist Hine on an expedition to Canada earlier in the year.

Installation of reptiles was confined mainly to one large group of American crocodiles. Material for this group was obtained by the Captain Marshall Field Expedition to Honduras in 1923. Full size plaster casts of the freshly killed animals were made in the field and safely transported to the Museum where they were used in making the celluloid reproductions for the group. The crocodiles are the largest animals to which the celluloid process has been applied, and it is gratifying to find it quite as effective and successful as with smaller ones. The Anaconda, previously exhibited with other material, was reinstalled to occupy an entire case with suitable accessories. A number of small reptiles were prepared in celluloid and await installation. Further experiments were conducted in celluloid work and a number of difficulties have been cleared up, especially in the technique of preparing specimens of very small size.

With the exception of one special undersea group, very few fishes were installed during 1925, owing to the lack of suitable cases. A small

collection of Pacific food and game fishes which had been exhibited temporarily in Stanley Field Hall was removed and placed in storage for incorporation with the systematic exhibit at a later time. Preparation of fishes continued with some interruptions and about fifty completed specimens are on hand with many others in various stages of completion, altogether comprising a sufficient number to occupy at least four entire cases.

The undersea group shows mainly sharks and rays and is installed in a built-in case with artificial light and painted background. It represents a scene as it might be viewed from a porthole of a submarine near shore and near bottom in the Gulf of Mexico. The material for it was collected by the Captain Marshall Field Expedition to Texas in 1924. The species shown are as follows: A small shark (*Carcharinus limbatus*) commonly called "maneater" and much feared by local fishermen; a Cow-nosed Ray (*Rhinoptera lobata*), a species with heavily armored jaws for crushing shellfish; a Leopard Ray (*Aetobatus narinari*) handsomely spotted black and white; a Sting Ray (*Dasybatus hastatus*), having a large barbed spine at the base of the tail; a Sawfish (*Pristis pectinatus*) about ten feet in length; and an Electric Ray (*Narcine brasiliensis*), noted for the powerful electric shock it is able to give.

There were no new installations of osteological material, but there was considerable rearrangement. Six cases, released from service for mammals in Hall 15, were utilized to bring under cover a number of large skeletons that had previously been exposed on open bases.

A special exhibit was maintained in Stanley Field Hall throughout most of the year, showing the route of the James Simpson-Roosevelt Expedition, and characteristic animals of the region traversed. It included a relief map on which the progress of the expedition was indicated by small flags placed as despatches came in. Paintings or published figures of mammals, birds, reptiles, and fishes likely to be obtained were also shown.

Congestion in the reference collections of mammals and birds was partly relieved by the acquisition of eight units of a new and improved style of storage case. This has a metal exterior and interior fittings of wood and composition. It is equipped with swinging doors having a special locking device, rendering it practically airtight and mothproof. It is finished in color and is convenient, practical, and attractive in appearance. The need for further cases of this type continues in order to make it possible to assemble specimens from their miscellaneous places of storage and place them in convenient order for reference and proper care.

During the year the last of the reptiles and amphibians were removed from the fish storage room, leaving shelf room for a better arrangement of fishes. A beginning was made on this new arrangement and some work was also done on the very important task of removing specimens from unserviceable cork-stoppered or glass-stoppered bottles and putting them in safer containers of the fruit-jar type.

Routine work in skull cleaning, skin dressing, and preparation of material received from expeditions proceeded as usual. Some 2,000 insects were pinned and labeled and four cases of shells were removed from exhibition and placed in storage.

An important event of the year was the receipt of the Barnes collection of North American birds' eggs. The collection was deposited in the Museum by Judge R. M. Barnes, who holds the position of Assistant Curator of Oology in the Department of Zoology, and who will share responsibility for its care and growth during his lifetime, after which it is agreed that full title to it shall pass to the Museum. The collection contains 38,731 eggs and is one of the largest and most valuable collections of the kind ever formed. Besides specimens obtained by Judge Barnes himself during forty years of activity, it contains various collections of others which were purchased entire. Among these are collections of Messrs. Philo W. Smith, Lee W. Chambers, J. W. Preston, P. B. Peabody, George Noble, Fred W. Beers, and Richard Christ. The collection is arranged in series of sets covering variations and peculiarities of interest to oologists. It contains, approximately, four hundred such series regarded as complete and about five hundred uncompleted ones. Practically every species of North American bird is represented, including some very rare or extinct ones, the eggs of which are now virtually unobtainable.

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

Progress in the N. W. Harris Extension Department during the past year has been more than ordinarily satisfactory. Seventy-eight cases were added to the number available for loaning to the schools of Chicago. Improvements were made in the methods of production used in several of these cases. The attractiveness and educational value of cases exhibiting reproductions of wild flowers of the Chicago area were increased by the use as backgrounds of enlarged and colored photographs showing the natural habitat of the flowers reproduced. The total number of cases that have been prepared for school use is 908. Of this number 706 are in daily circulation, cases now being regularly loaned to 353 schools in Chicago. Each pupil of the conservatively estimated half-million

attending these combined schools has the opportunity every school-day of studying two of the cases; and during the school-year, thirty-six cases are placed at his disposal. A delivery truck visits each school eighteen times during the year and leaves, on each visit, two cases. These are either taken from class room to class room or are displayed in the main hall of the school.

Requests to receive scheduled deliveries of cases were received from and granted to the following: Union League Foundation for Boys' Clubs, the Chicago University Settlement, Pullman Free School of Manual Training, and the Guardian Angel School conducted by the Sisters of Notre Dame. Cases were loaned for short periods to the following: Woodlawn, Ogden Park and Henry E. Legler branches of the Chicago Public Library; Y. M. C. A. School; Moreland Continuation School; Municipal Pier Exhibit; Chicago Art Institute; Annual Nature Exhibit, Illinois Federation of Women's Clubs; Chicago Chapter, Wild Flowers Preservation Society of America; Swift & Company; International Life Stock Show; and Sprague, Warner & Company. Acknowledgement is made to the A. I. Root Company for their assistance in the preparation of a case showing various phases in the life of the honey-bee. This case was exhibited under their auspices at a meeting of the Wisconsin Bee-keepers' Association, and, later, in the Entomological Section of the Annual Meeting, American Association for the Advancement of Science.

GUIDE-LECTURERS

Classes from public, parochial and private schools, clubs, conventions, and other groups were given free guide-lecture service throughout the year. In conducted tours for classes from the public schools, a strict adherence to the subjects studied in each grade was maintained. This policy, coupled with the cooperation of school officials, nearly tripled the number of school classes receiving instruction. Three hundred forty-eight informal lectures were given in the exhibition halls to classes totalling 11,821 children. A Vacation Course of Instruction for children recommended by Members of the Museum was carried on during the summer months. Thirty-six classes, with an attendance of 251 children, met during the course for study of the Museum collections. Clubs and conventions to the number of 120 with an attendance of 2,167 were conducted on general tours of the Institution; and nine lectures illustrated by stereopticon were given to 342 members of women's clubs. Public tours were offered on announced days and hours; and 176 such tours were attended by 693 individuals. The total for guide-lecture service in the Museum was: 653 lectures with an attendance of 15,023 individuals.

In January of 1925, tentative plans were made for widening the scope of the guide-lecture service by the inauguration of Field Museum Extension Lectures in the Public Schools. The addition of a third guide-lecturer to the department in March gave fresh impetus to the plan; but upon advice of school officials, the beginning of the work was postponed until the school year 1925-1926. It was the desire of the Museum to keep these lectures related as closely as possible to the regular school work by selecting their subjects from the school curriculum. The lectures were illustrated by lantern slides and were given in either school auditoriums or class rooms, depending upon the choice of the principal. In November and December, 91 lectures were given to audiences totalling 20,717 children. These figures, combined with the totals for conducted tours, general lectures, special lectures, entertainments and Americanization programs, make a total of 105,066 individuals who received direct instruction from the Museum in the year 1925.

ART RESEARCH CLASSES

During the year, the classes in research from the School of the Art Institute of Chicago visited the Museum daily. The enrollment of this year is slightly in excess of that of preceding years. Interest in the work is constantly growing, and the results of study in the Museum is to be seen in the work of other classes at the Art Institute.

Some of the work done in Mr. Wilkins' classes included the productions of posters, a few of which were used by the Museum in the Rapid Transit Series of advertisements and in the schools of Chicago.

The portfolio, "Research Design in Nature," which was published during 1925 by Mr. Wilkins from Field Museum Press, was compiled from the work of his classes at the Museum. It contains approximately 220 plates, showing about 3,000 designs based directly on Museum exhibits, and is finding a diversified use in art, education and industry.

PUBLICITY

GENERAL.—During the past year the Publicity work was enlarged, international as well as local and national mediums being used. Necessarily the emphasis lay upon local efforts, the primary aim of the work during the year being to arouse a desire on the part of the general public to visit the Museum.

In addition to attempting to increase the use of the Museum by the public through arousing an interest in its exhibits and activities, an

active campaign has been maintained to enable the stranger to find his way to the Museum.

Various advertising mediums have been placed at the disposal of the Museum without charge. This occasion is taken to again extend the thanks of the Institution to the givers of this space.

PRESS PUBLICITY.—An average of five newspaper notices were published each week in the local papers, some of these notices appearing in all or several of the six Chicago newspapers. Of the two hundred and fifty news stories, ninety-three were published nationally and twenty-one received international circulation. The aim of these stories was to inform the public regarding the Museum's important exhibits and its research, expeditions, aims, accomplishments and general activities.

During the year, news, feature and pictorial publicity was secured through the following distribution services: Associated Press, United Press, International News, Universal Service, Consolidated Press, Underwood & Underwood, International Photo Service, Kadel & Herbert, Pacific and Atlantic, Photograms, Wide World, Central Press, NEA Service, Havas, Agence Radio, Reuters, Rosta, Australian Press, etc.

Illustrated articles were also printed in several leading magazines concerning Museum projects and activities.

ADVERTISING.—A series of six color posters, representing Museum exhibits, was displayed in the Elevated Line Stations. Placards announcing the lecture courses were also displayed by the Rapid Transit Company in the spring and autumn. During the same seasons, the Surface Lines printed, at their own expense, overhead posters advertising the Museum. The Illinois Central Railroad, through the courtesy of the Inland Advertising Company, continued to give advertising space in its suburban trains to the Museum.

Two color posters were distributed to libraries, schools and other institutions advertising the spring and autumn lecture courses for adults and similar distribution was given to two posters advertising children's courses. A series of three color posters was used to advertise the Americanization Programs, distribution of this series being by mail and through the assistance of the Citizenship Committee of the Chicago Council of Social Agencies.

Through the courtesy of the Clyde W. Riley Advertising System, the Museum used during the year a page in each program used by the eighteen theatres whose programs are controlled by the System. A page advertisement also appeared in each issue of the Auditorium Theater

program during the 1925 season of the Chicago Civic Opera, this space being secured through the interest of President Stanley Field. An advertisement of the Museum appeared in *This Week in Chicago*, issue of May 3-9, 1925, through the courtesy of the publisher.

DIRECTION FOLDERS.—A form letter has been sent to an average of fifty convention chairmen a month during the past year, offering them a supply of folders on "How to Reach Field Museum." A number of conventions have been supplied in this manner with the folders. This folder also received wide distribution through the courtesy of local hotels, information booths and railroad stations.

DIVISION OF PRINTING

The Division of Printing produced an excess of 2,000 exhibition labels and 150,000 other impressions over the total for 1924. The following publications were printed and bound during the year by this section:

Regular publication series.....	15,714
Design Series.....	1,500
Leaflet Series.....	42,048
Technique Series.....	2,200
Membership Brochure.....	7,236
Museum Publication Price List.....	100
Total.....	68,798

The number of labels and other impressions printed follows:

	Exhibition Labels	Other Impressions
Anthropology.....	5,100	8,490
Botany.....	1,030	19,785
Geology.....	867	100
Zoology.....	432	6,953
Harris Extension.....	850	1,790
General.....		421,887
Geographic Society of Chicago.....		72,305
Total.....	8,279	531,310

One colored plate for the Catalogue of Birds of the Americas, one colored plate of Mr. Ayer for the Catalogue of the Ornithological Library, and eight colored maps for the Early Geological History of Chicago required 24,000 impressions.

Among the exhibition labels printed, those produced on buff stock are worthy of mention as they have proved unusually legible in the artificially lighted halls. No. 3 in the Design Series is a good example of the cooperation which exists between the divisions of Photography, Photogravure and Printing. It consists of a portfolio with thirty-eight photogravure plates and four pages of text.

DIVISION OF PHOTOGRAPHY AND ILLUSTRATION

PHOTOGRAPHY.—The total number of operations, lantern slides, prints and negatives made by this division during the year was 11,903. Two hundred and sixty-nine negatives were made for the portfolio, Research Design in Nature. The following tabulation is a summary of the work performed:

	Number of Lantern Slides Made	Number of Negatives Made	Number of Prints Made	Number of Negatives Developed for Field Expeditions
Anthropology.....	271	281	1,350	...
Botany.....	...	81	1,789	6
Geology.....	198	117	960	...
Zoology.....	2	130	1,458	84
Harris Extension.....	...	65	155	66
General.....	44	397	1,575	...
Gift.....	2	2	96	...
Sale.....	4	4	43	...
Public Schools.....	1,143	143	460	...
Photogravure.....	...	309	578	...
Totals.....	1,664	1,529	8,564	146

PHOTOGRAVURE.—The number of photogravures made during the year exceeded the total for 1924 by more than 140,000. The following statement shows the work of this division during the year:

	No. of Prints
Anthropology Publications.....	146,000
Botany Publications.....	6,000
Geology Publications.....	32,300
Report of the Director.....	56,000
Post Cards.....	14,764
Post Cards, Special.....	1,000
New Picture Post Card Album.....	41,500
Membership Certificates.....	1,000
Research Design in Nature, portfolio.....	202,000
Total.....	504,564



A CACTUS FROM BRITISH GUIANA.

(*Cereus hexagonus*).

IN ONE OF THE EXPANDED FLOWERS IS A BAT (*Glossophaga*) THAT VISITS THIS CACTUS.

Reproduced for the Hall of Plant Life.

STANLEY FIELD GUIANA EXPEDITION.

ARTIST.—The following list is a comprehensive statement of the work performed by this division during the year:

ANTHROPOLOGY

- 67 pen drawings of Chinese pottery.
- 16 pen drawings of Chinese pictographs.
- 77 lantern slides colored.
- 48 negatives of Chinese baskets blocked.
- 2 photographs of crickets retouched.
- 6 negatives numbered.
- 6 plates (67 figures) photographs of excavations at Kish remounted, lettered and retouched.
- 6 drawings of Polynesian designs.

BOTANY

(Plant reproduction)

- Fruits and bracts of *Borassus* colored.
- 180 petals of crab-apple flowers colored.

GEOLOGY

- Scutes of fossil *Glyptodon* colored.
- 3 casts of meteorites colored.
- 14 pen drawings for leaflet.
- 4 negatives blocked.
- 1 map drawing.
- 2 drawings lettered.
- 3 photographs retouched.
- 81 lantern slides colored.

ZOOLOGY

- 14 drawings of coral snake patterns.
- 1 map of S. America drawn.
- 1 map of Africa retouched.
- 2 photographs of mammals retouched. Numerals on photographs of skulls.

PHOTOGRAPHER

- 41 photographs retouched.
- 50 negatives blocked.

GENERAL

- 351 lantern slides colored.
- 5 negatives blocked.
- Cover design and panel decorations for Membership Brochure.

PUBLICITY

- 2 drawings for posters.

PRINTER

- Cuts repaired.
- Drawing of word "Album."

PHOTOGRAVURIST

- Registration marks placed on photographs.
- Letters on negatives retouched.

ATTENDANCE

The total attendance for the year is 722,950, which is an increase of 79,491 over the previous year. An analysis of the admissions is made elsewhere in this report.

Herewith are also submitted financial statements, lists of accessions, names of members, etc.

D. C. DAVIES, Director.

ATTENDANCE STATISTICS

FROM JANUARY 1, 1925 TO DECEMBER 31, 1925

Total Attendance.....	722,950
Paid Attendance.....	104,419
Free Admission on Pay Days:	
Students.....	11,884
School Children.....	34,659
Teachers.....	1,397
Members.....	760
Admissions on Free Days:	
Thursdays (53).....	83,109
Saturdays (52).....	165,768
Sundays (52).....	320,954

Highest Attendance on any day (August 30, 1925).....	18,889
Lowest Attendance on any day (December 21, 1925).....	133
Highest Paid Attendance on any day (September 7, 1925)....	4,174
Average Daily Admissions (365 days).....	1,980
Average Paid Admissions (208 days).....	502
Number of Guides sold.....	9,787
Number of Articles checked.....	17,592
Number of Picture Post Cards sold.....	95,643
Sales of Publications, Leaflets, Handbooks and Photographs..	\$2,357.37

GENERAL FUND

STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS

At December 31, 1925

Balance, December 31, 1924.....\$43,560.53

RECEIPTS

Income—Endowment, General, Miscellaneous and door receipts.....	\$ 253,892.03	
South Park Commissioners.....	110,983.64	
Sundry Receipts.....	9,004.83	
Memberships.....	72,670.00	
Contributions.....	290,415.12	
Sales of Securities.....	503,203.06	\$1,240,168.68
		\$1,283,729.21

DISBURSEMENTS

Operating Expenses.....	\$ 441,940.36	
Expeditions.....	60,477.30	
Collections Purchased.....	80,912.81	
Furniture and Fixtures.....	44,416.11	
Securities Purchased.....	611,522.16	
Annuities on Contingent Gifts.....	15,665.00	
	\$1,254,933.74	
Transferred to Sinking Fund.....	12,900.00	\$1,267,833.74
		\$ 15,895.47
Cash Balance, December 31, 1925.....		

THE N. W. HARRIS PUBLIC SCHOOL EXTENSION

Statement of Income and Expenses for the Year 1925

Interest and Dividends on Investments.....	\$ 22,408.44
Operating Expenses.....	21,179.88
	<hr/>
Balance transferred to Surplus.....	\$ 1,228.56

STANLEY FIELD PLANT REPRODUCTION FUND

Statement of Income and Expenses for the Year 1925

Balance December 31, 1924.....	\$ 66.92
Contributions by Stanley Field during 1925.....	14,300.00
	<hr/>
	\$ 14,366.92
Operating Expenses 1925.....	13,439.36
	<hr/>
Balance December 31, 1925.....	\$ 927.56

STANLEY FIELD MUSEUM EMPLOYEES PENSION FUND

Statement of Income and Expenses for the Year 1925

Interest and Dividends on Investments.....	\$ 11,856.42
Profit on sale of Securities.....	915.25
	<hr/>
	\$ 12,771.67
Pensions and Group Insurance Premiums for 1925	10,668.13
	<hr/>
Balance added to Pension Fund.....	\$ 2,103.54

ACCESSIONS

DEPARTMENT OF ANTHROPOLOGY

ADAMS, MRS. JOSEPH, Chicago.

- 1 portrait head carved from stone, Roman period; 1 cast silver figure, Inca period—Egypt and Peru (gift).

ADAMS, MR. JOSEPH, Chicago.

- 2 barbed iron spears—Sudan, Central Africa (gift).

ARONSON, HENRY A., Chicago.

- 1 beaded bag of Central Algonkin type—Chippewa, Lac du Flambeau, Wisconsin (gift).

AYER, EDWARD E., Chicago.

- 1 large pewter ewer, with embossed Pan's head and floral designs—Germany (gift).

- 2 pewter objects: 1 lacquered tea-jar and 1 pair pewter tea-jars with designs inlaid in brass—Japan and China (gift).

- 1 water tobacco-pipe of white copper—China (gift).

- 2 pewter objects: 1 pair wine-pots in form of peaches and 1 decorated box—China (gift).

- 1 pewter wine-pot, 18th century—Japan (gift).

- 11 pewter objects: 4 pair of candlesticks, 1 tea-pot, 1 pair of teacanisters, 1 covered dish, 1 set of two figures on base, 1 box with two compartments, 1 boat, 1 figure of phoenix—China (gift).

- 11 pewter objects: 2 pair of candlesticks and 9 tea-pots—China (gift).

- 4 pewter objects: 1 censer in shape of crane, 1 in shape of fish, 1 dish, 1 tea-jar inlaid with brass designs—China (gift).

- 9 pewter objects: 3 tea-pots and 3 trays inlaid with designs in brass—China (gift).

- 2 pewter objects: 1 pair of wine-cups and 1 baptismal font—China and Germany (gift).

- 10 pewter objects: 1 decorated plate, 1 tureen, 7 spoons, 1 ladle—Italy and Germany (gift).

- 3 pewter objects: 1 tray, 1 seal-box, 1 money-box—China (gift).

- 10 pewter objects: 1 covered jar, 2 coffee-pots, 2 tankards, 2 plates, 2 measuring cups, 1 porringer—China, England, Germany and United States (gift).

- 7 pewter objects: 1 tea-jar lacquered in gold and red, 1 tea-jar inlaid with brass, 2 bowls, and 1 covered jar—Japan and China (gift).

- 2 copper trays inlaid with floral designs in pewter—Japan (gift).

- 10 feather head-dresses—Karak, California (gift).

AYER, MRS. EDWARD E., Chicago.

- 5 pewter objects: decanter and set of four glasses, trimmed with pewter—Germany (gift).

BABCOCK, A. B., Chicago.

- 5 costumed dolls representing emperor and empress, prince, princess and state minister, for dolls' festival—Japan (gift).

BERNICE-PAUAAHI BISHOP MUSEUM, Honolulu, Hawaiian Islands.

- 128 objects: stone work, tapa, wooden bowls, etc. from Hawaii; and 1 wooden image, 2 bowls, 1 pounder, and 1 adze from Marquesas Islands—Hawaiian and Marquesas Islands (exchange).

BUCKINGHAM, MISS KATE S., Chicago.

- 3 ornamented tomb-bricks of the Han period—China (gift).

BUTLER, JULIUS W., Chicago.

- 2 pairs of moccasins—Shoshoni and Algonkin, Eastern Woodland Area and Montana (gift).

CHANDLER, M. G., Chicago.

- 3 rock medicines, 2 war medicines,
1 horse-stealing medicine, 1 tobacco medicine, 1 medicine pipe,
1 medicine—Crow and Cheyenne, Montana (exchange).

CHRISTMAN, GEORGE H., Watertown, New York.

- 1 prehistoric stone chisel—Chaumont, Watertown, New York (gift).

COALE, HENRY K., Highland Park, Illinois.

- 1 prehistoric flint spear-head—Highland Park, Illinois (gift).

CORY, CHARLES B., JR., Chicago.

- 1 mat woven from ivory threads—Chittagong, Bengal, India (exchange).

CORY, MRS. CHARLES B., Chicago.

- 13 objects: 1 woman's skirt, 2 waists, 1 man's shirt and 1 coat, 1 racket with deerskin ball, 1 wooden soup-ladle, 1 beaded bandolier, 3 pairs of moccasins, 1 piece of buckskin—Seminole, Florida; 1 leather apron—Nubia, Africa (gift).

EGAN, W. C., EGANDALE, Highland Park, Illinois.

- 1 Chinese jingal, 1 Japanese sword, 2 African spears—China, Japan, and Africa (gift).

ERSKINE, ALFRED, New York, New York.

- 1 poncho of llama wool—Peru, South America (gift).

FIELD, J. C., Waukegan, Illinois.

- 1 cornet made of 18 pieces of cow's horn from Peru, and 1 fur foot-warmer from Bolivia—Huan-cayo, Peru, and Bolivia, South America (gift).

FIELD MUSEUM OF NATURAL HISTORY.

Collected by A. L. Kroeber.—Captain Marshall Field Expedition to Peru:

About 1,971 objects: mummy bundles, pottery, fabrics, spindles and weaving sticks, baskets, pouches, plant remains, skulls and skeletal material—Peru, South America.

Collected by Andre Bircher and James H. Breasted.—Stanley Field and Ernest R. Graham Fund:

747 objects: 1 granite statue of Senmut, 9 bronze figures, 1 bronze sistrum, 154 alabaster bowls and vases, 580 textiles and dresses, and 2 Byzantine paintings on cloth—Egypt.

Collected by M. G. Chandler.—Endowment of Julius and Augusta N. Rosenwald.

320 objects: clothing, mats, bags, clubs, spoons, mortars, saddle, snow-shoes, flutes, pipes, and ceremonial objects—Potawatomi, Menominee, Winnebago, Mississini, and Chippewa,—Iowa, Kansas, and Wisconsin.

Purchases:

Exhibit showing family tree of man consisting of background and 16 casts of skulls, from American Museum of Natural History, New York.

2 bark shirts and 1 pair of native rubber shoes—Province of Carabaya, Peru, South America, from W. H. Staver, New York, N. Y.

2 bronze sacrificial vessels in shape of animals—China, from William E. Hague, Chicago.

2 carved wooden clubs—New Zealand, from Ralph Linton, Chicago.

2 ornamented Karen bronze drums—Cheng Mai, Lao Country, Siam, from Dr. Joseph F. Rock, Washington, D. C.

1,950 objects: 3 costumed figures, carved wooden door frames, images, masks and stools, beaded work, ivory, jewelry, musical instruments, bells, pipes, bronze castings, swords, spears, guns, bows, crossbows, shields, daggers, axes, quivers, tools, nets, etc.—Cameroon, West Africa, from Jan Kleykamp, New York.

99 objects: clothing, weapons and implements—Copper Eskimo, Coronation Gulf, Northwest Territories, Canada, from John G. Worth, Philadelphia, Pennsylvania.

FIELD MUSEUM-OXFORD UNIVERSITY JOINT EXPEDITION (Captain Marshall Field Fund).

- 723 objects: 362 pieces of pottery, 59 stone implements, 8 shell implements, 12 bone implements, 35 seals, 203 metal objects, 41 beads, 3 ostrich-egg cups—Kish, Mesopotamia.

FIELD, STANLEY; PATTEN, HENRY J.; PIKE, CHARLES B., Chicago.

- 361 miscellaneous archaeological and ethnological objects—Egypt, Greece, Rome, South America, Mexico, United States, Australia, South Sea Islands, Philippines, India, and Europe (gift).

FORD, MRS. VERNON, Kansas City, Missouri.

- 1 decorated red pottery goblet—Inca, Cuzco, Peru, South America (gift).

FROST, MRS. E. B., Williams Bay, Wisconsin.

- 1 mummified head—Egypt, Africa (gift).

GILMER, DR. THOMAS L., Chicago.

- 1 woman's tobacco-pipe of pyrite—Banff, British Columbia, Canada (gift).

HARRIS, HARRY, Richmond, Virginia.

- String of 56 old colonial trade-beads—Penn Farm near Leedstown, Westmoreland County, Virginia (exchange).

HUBBARD, J. H., Chicago.

- 1 prehistoric grooved axe—Rogers Park, Chicago, Illinois (gift).

HUDSON, W. L., Chicago.

- 1 beaded pipe-bag with porcupine-quill fringes—Sioux, United States (gift).

HUGHES, THOMAS S., Chicago.

- Framed oil-painting by Andrew McCallum "The Rock Temple at Aboo Simbel, Egypt," painted in 1874 (gift).

- 2 carved wooden images—China and Burma (gift).

JOHNSON, H. L., Clarksville, Tennessee.

- 19 objects: 2 discoidals, 5 bird-stones, 1 gorget, 1 flint gouge, 3 flint knives, 2 figures of frogs, 2 points, 2 tobacco-pipes—Tennessee, Kentucky, Indiana, North Carolina, California, Ohio, New York, Alaska, and Denmark (exchange).

KELLOGG, GERTRUDE E., Wheaton, Illinois.

- 3 clay figures of actors and 1 pen-rack—Fen-chou, Shansi Province, China (gift).

KREIDER, NOBLE, Goshen, Indiana.

- 1 silex spear-head, Aurignacian period—La Ferrassie, France (gift).

KROHN, DR. W. O., Chicago.

- 143 objects: spears, blow-pipe, swords, shields, costumes, mats, ornaments, masks, musical instruments, games, toys, and miscellaneous—Dayak, Borneo, Dutch East Indies (gift).

LARMER, MRS. WILLIAM, Chicago.

- 4 pieces of decorated tapa cloth—Samoa, Polynesia (gift).

LINTON, RALPH, Chicago.

- 3 shell necklaces—Papeete, Tahiti (gift).

LOGAN MUSEUM OF BELOIT COLLEGE, Beloit, Wisconsin.

- 285 objects: 49 copper implements, 64 chipped stone implements, 59 grooved stone axes, Wisconsin; 47 stone celts, United States; 54 stone implements, Denmark; 1 bone anvil, Mousterian, France; 1 pottery vase, Chancay, Peru; 1 pottery vase, Yuma, California; 1 adze, Klamath, California; 1 mat dress, Marshall Islands; 1 bone necklace and 1 shark-tooth spear, Gilbert Islands; 1 barbed weapon, New Guinea; 2 spears, Kikuyu, Africa; 1 iron axe, East Africa; 1 hammerstone, South Africa—Yuma and Klamath, Wisconsin and California, United States; Denmark; Mousterian, France; Chancay, Peru; Marshall Islands; Gilbert Islands; New Guinea; Africa (exchange).

MAERTIN, MRS. H., Chicago.

- 1 pewter spoon (heirloom of Henry Gross family)—Palatinate, Bavaria, Germany (gift).

MANIERRE, GEORGE (deceased), Chicago.

- 281 objects: 57 tobacco pipes, North America, Mexico and Japan; 73 pieces of prehistoric pottery and stone implements, North America; 115 chipped stone implements, Illinois; 3 pieces of pottery, Mississippi Valley; 20 baskets, bow, horn spoons, masks, knife, etc., California, Plains Indians, and Northwest Coast; 6 obsidian flakes, Mexico; 2 pieces of pottery, Chiriqui, Panama; 1 alabaster jar, 1 ushebt, Egypt; 1 boomerang, Australia; 1 carved ivory figure, Japan; 1 enameled cup, Russia—North America, Mexico, Panama, Australia, Japan, Egypt, and Russia (gift).

McARTHUR, MRS. R. J., San Pedro, California.

- 2 prehistoric stone dishes—San Nicolas, Santa Barbara Islands, California (gift).

MEEKER, MRS. ARTHUR, Chicago.

- 1 silk embroidered hanging—China (gift).

MICHALEK, MRS. FLORENCE, Chicago Heights, Illinois.

- 1 Vicuna rug—Peru, South America (gift).

MITCHELL, JOHN J., Chicago.

- 160 carved rhinoceros-horn and buffalo-horn cups—China (gift).

NICHOLSON, GRACE, Pasadena, California.

- 1 buckskin skirt ornamented with shells, and apron of Karok woman—Northwest California (gift).

OHIO STATE MUSEUM, Columbus, Ohio.

- 369 objects: celts, mica, and obsidian specimens, and 19 casts of Hope-well Mound specimens—Hope-well and other Mounds of Ohio (exchange).

O'KEEFE, MRS. DENNIS D., Chicago.

- 1 dancing costume of Hibiscus fibers Tahiti; 3 pieces of tapa cloth stamped with designs, Fiji and Samoa—Papeete, Tahiti; Suva, Fiji; Pagopago and Apia, Samoa (gift).

PATTERSON, LIEUT.-COL. J. H., London, England.

- 54 inscribed clay tablets—Babylon, Mesopotamia (gift).

REED, MISS KATHERINE, Galesburg, Illinois.

- 2 embroidered shawls—Kashmir, India (gift).

RITTER, DR. THOMAS B. (deceased), Chicago.

- 3 objects: 1 pottery jar, 1 pottery bowl, and 1 tobacco-pipe—Catawba Indians, North Carolina (gift).

SARGENT, HOMER E., Pasadena, California.

- 1 Saltillo serape decorated with geometric designs—Saltillo, Coahuila, Mexico (gift).
- 3 reproductions of copper axe, spear-head, and dagger—Aishihik tribe, Yukon Territory, Canada (gift).
- 1 pair of snow-shoes—Chippewa, United States (gift).
- 17 basket trays, 1 basket cradle, 2 Apache baskets, 9 California baskets—Hopi, Apache, Mission, Pomo, etc., Arizona and California (gift).

SWIFT, CHARLES H., Chicago.

- 24 ivory carvings—Japan; 1 miniature clay dish—Palestine (gift).

THOMPSON, EDWARD HERBERT, West Palmouth, Massachusetts.

- 2 large pearls found in the sepulchre of the High Priest—Maya, Chichen Itza, Yucatan, Mexico.

TILLOTSON, MRS. HOMER J., Los Angeles, California.

- 1 pewter chalice—England (gift).

WHEELER, H. E., Chicago.

- 1 prehistoric incised black pottery jar—Caddo Indian Burying Ground, Arkansas River, Arkansas (gift).



STUMP OF A FOSSIL TREE.

This was found among Carboniferous trees in a
strata near the junction of the St. Louis and
the Ohio Rivers, Illinois. The trunk was found
in the upper part of the St. Louis.

GIFT OF MR. G. ZOLLER.

STUMP OF A FOSSIL TREE OF THE COAL PERIOD.

ZEIGLER MINE NO. 1, ZEIGLER, ILLINOIS.

GIFT OF MR. WALTER G. ZOLLER.

WILDSCHUT, W., Billings, Montana.
1 Crow rock medicine—Montana (exchange).

77 medicine bundles and baskets—Crow and Cheyenne, and Ban-nock, Shoshoni Stock, Montana (exchange).

WILLSDEN, S. BLAKE, Chicago.

2 beaded bags—Ojibwa, Red Lake Indian Reservation, Beltrami County, Minnesota (gift).

WORTHINGTON, MR. C. M., Chicago

1 human skull with engraved designs—Borneo (gift).

WORTHINGTON, MR. AND MRS.
C. M., Chicago.

43 objects: 1 shield, 1 mat, 4 men's hats, 3 women's head-dresses, 2 dish-covers, 3 baskets, 1 tobacco-pouch, 1 rice pounder, 2 kris, 1 sword, 2 wooden knife models, 1 doll, 20 fruits and vegetables in wax, and 1 marionette figure—Dayak, Dutch Borneo and Java (gift).

ZULFER, PETER M., Chicago.

1 decorated serape in colors—Mexico.

DEPARTMENT OF BOTANY

ADAMS, J. A., Chicago, Illinois.
1 economic specimen (gift).

AUSTRALIAN GOVERNMENT, Commissioner of Queensland Court, Panama Pacific Exposition, San Francisco, 1915.

42 economic specimens (gift).

BENKE, H. C., Chicago, Illinois.

487 herbarium specimens (gift).

75 duplicate specimens (gift).

32 photographic prints (gift).

32 negatives (gift).

CHAMBERLAIN, PROF. C. J., University of Chicago.

68 herbarium specimens (gift).

CHURCHILL, JUDGE J. R., Dorchester, Mass.

1 herbarium specimen (gift).

CORN PRODUCTS REFINING CO., Argo, Illinois.

39 economic specimens (gift).

DAHLGREN, DR. B. E., Chicago, Illinois.

2 herbarium specimens (gift).

EPLING, DR. CARL, University of California, Southern Branch, Los Angeles, California.

24 photographs of herbarium specimens (gift).

FIELD MUSEUM OF NATURAL HISTORY.

Collected by G. S. Bryan (Capt. Marshall Field Expedition, Peru (1923):

18 herbarium specimens.

Collected by J. F. Macbride (Capt. Marshall Field Expedition, Peru 1923):

6 herbarium specimens.

Collected by A. C. Persaud (Capt. Marshall Field British Guiana Expedition 1924):

51 herbarium specimens.

132 duplicate specimens.

Stanley Field Laboratory:

34 models and reproductions of plants.

Transfer from Department of Anthropology:

3 economic specimens.

Transfer from Department of Zoology:

1 herbarium specimen.

Purchases:

2728 herbarium specimens—various localities.

1386 duplicate specimens—various localities.

1 economic specimen.

FLORIDA WOOD PRODUCTS CO., Jacksonville, Florida.

6 economic specimens (gift).

FRIESSER, JULIUS, Chicago, Illinois.

2 herbarium specimens (gift).

HALLBERG, J. P., Winegar, Wisconsin.

1 economic specimen (gift).

HUNGARIAN NATIONAL MUSEUM, Budapest, Hungary.

500 herbarium specimens (exchange).

JACZEWSKI, PROF. ARTHUR De, New York City.

151 herbarium specimens (exchange).

JOHNSON, A. S., Chicago, Illinois.

1 herbarium specimen (gift).

- MACBRIDE, J. F., Chicago, Illinois.
4 herbarium specimens (gift).
- MCCURRAGH, J., Portage Point, Onekanna, Michigan.
1 herbarium specimen (gift).
- MISSOURI BOTANICAL GARDEN,
St. Louis, Missouri.
1 herbarium specimen (exchange).
- NETHERCOT, MRS. ANNIE, Chicago, Illinois.
300 herbarium specimens (gift).
- PADILLA, DR. S. A., Salvador, Central America.
1 herbarium specimen (gift).
- PALMER, J. H., Chicago, Illinois.
1 herbarium specimen (gift).
- PEATIE, D. C., Rosslyn, Virginia.
121 herbarium specimens (gift).
- POMONA COLLEGE, Department of Botany, Claremont, California.
181 herbarium specimens (exchange).
- ROSE, DR. J. N., Washington, D. C.
1 herbarium specimen (gift).
- SHERFF, DR. E. E., Chicago, Illinois.
4 herbarium specimens (gift).
- STONE, R. R., Chicago, Illinois.
Collection of wood specimens (gift).
- TANNIN EXTRACT CO., Brooklyn, New York.
2 economic specimens (gift).
- U. S. DEPARTMENT OF AGRICULTURE, Washington, D. C.
142 herbarium specimens (exchange).
- U. S. NATIONAL MUSEUM, Washington, D. C.
1089 herbarium specimens (exchange).
- UNIVERSITY OF CALIFORNIA, Southern Branch, Los Angeles, California.
90 herbarium specimens (exchange).
- WEIS, S. W., Chicago, Illinois.
250 herbarium specimens (gift).
- WHEELER, H. E., Chicago, Illinois.
300 herbarium specimens (gift).
- WHETSTONE, DR. M. S., Minneapolis, Minn.
1 herbarium specimen (gift).

DEPARTMENT OF GEOLOGY

- AMERICAN MUSEUM OF NATURAL HISTORY, New York City, N. Y.
1 cast of nest of fossil dinosaur eggs (gift).
2 casts of fossil skulls (gift).
4 casts of bones of fossil horse (gift).
- BANNER ROCK PRODUCTS CO., Alexandria, Indiana.
2 specimens rock wool (gift).
1 specimen rock cork (gift).
1 specimen argillaceous limestone (gift).
1 specimen asphalt-paving joint (gift).
- BLAIN, W. H., Chicago.
1 specimen coral—Nashville, Tennessee (gift).
1 specimen geode—Nashville, Tennessee (gift).
- BROWN, CHAS. F., South Bend, Indiana.
6 specimens peat—South Bend, Indiana (gift).
- BUTLER, JULIUS W., Chicago.
15 specimens ores and rocks—Forney, Idaho (gift).
18 specimens minerals—Gallatin Co., Montana (gift).
- CARD, GEORGE W., New South Wales.
1 specimen meteorite—New South Wales (gift).
- CHALMERS, WILLIAM J., Chicago.
1 specimen ferrierite — Kamloops, British Columbia (gift).
1 specimen monazite crystal—Brejauba, Minas Geraes, Brazil (gift).
6 specimens bismuth and pucherite—Brejauba, Minas Geraes, Brazil (gift).
15 specimens minerals — Belgian Congo, Madagascar and Sweden (gift).
21 specimens minerals—Madagascar (gift).
24 specimens minerals—Valmelanco, Lanzada, Italy (gift).
41 specimens minerals—South America (gift).
- CHASE, V. H., Peoria, Illinois.
6 specimens cone-in-cone formation—Peoria Co., Illinois (gift).
- CLEAVES, HOWARD H., Clarksburg, Virginia.
9 specimens fossil brachiopods—Albany Co., New York (gift).

- COLORADO MUSEUM OF NATURAL HISTORY, Denver, Colo.
3 specimens meteorites—Johnstown, Colorado (exchange).
- CONE, W. H., Berkeley, California.
1 specimen magnesite—Santa Clara Co., California (gift).
- CORY, C. B., Chicago.
4 specimens hematite concretions—Pinehurst, North Carolina (gift).
- CHRISTMAN, GEORGE, Watertown, New York.
2 specimens fossils—Chaumont, New York (gift).
- CROWLEY, PATRICK, Chicago.
1 specimen copper ore—Butte, Montana (gift).
1 specimen pyrite—Butte, Montana (gift).
- DAVIS, JOHN, Iowa City, Iowa.
1 specimen fossil sponge—Iowa City, Iowa (gift).
1 specimen fossil coral—Iowa City, Iowa (gift).
14 specimens fossil invertebrates—Coralville, Iowa City, Iowa (gift).
- DOWNS, WM. R., Fal, Louisiana.
3 specimens fossil wood—Fal, Vernon Parish, Louisiana (gift).
- ELLIOTT, JOHN G., Chicago.
1 specimen gold ore—Calaveras Co., California (gift).
- FERRAZ, DR. JORGE B. DE ARAUJO, Rio de Janeiro, Brazil.
4 specimens minerals—Ouro Preto and Bahia (exchange).
1 specimen gold ore—Bahia, Brazil (exchange).
- FERSMAN, PROF. ALEX., Leningrad, Russia.
Print of a section of the Pallas meteorite (gift).
- FIELD MUSEUM OF NATURAL HISTORY.
Collected by B. Laufer—Captain Marshall Field Expedition to China, 1923:
14 specimens fossil and modern horse teeth—China.
1 specimen part of tusk of fossil elephant—China.
Collected by E. S. Riggs, J. B. Abbott, G. F. Sternberg and Harold Riggs—Captain Marshall Field Paleontological Expedition to Argentina:
50 boxes fossil vertebrates, invertebrates and plants—Argentina.
43 boxes fossil vertebrates and invertebrates—Argentina.
34 boxes fossil vertebrates—Bolivia.
1 specimen geode—Argentina.
- Purchases:
Fossil skeleton of *Equus scotti*—Rock Creek, Texas.
2 specimens *Mesohippus bairdi*—Harrison, Nebraska.
2 specimens opals—White Cliff, Australia.
3 cameos cut from lava.
3 casts of *Eohippus*.
5 specimens blue and mauve, cut zircon—Siam and Ceylon.
10 restorations of extinct reptiles.
13 cut, semi-precious stones.
- FIELD, STANLEY, HENRY J. PATTEN and CHARLES B. PIKE, Chicago.
5 specimens fossil plants (gift).
- FORD, MRS. VERNON, Kansas City, Missouri.
1 specimen colored sand—Chile (gift).
- FREDERICKS, F. G., Bessie, North Dakota.
16 specimens concretions, fossils and minerals—North Dakota (gift).
- GOSSEL, PHILIP, Chicago.
2 specimens clays—Niland, near Death Valley, California (gift).
3 specimens miscellaneous minerals—Niland, near Death Valley, California (gift).
15 specimens concretions—Niland, near Death Valley, California (gift).
- HALL, LEO G., Downer's Grove, Illinois.
3 specimens minerals—Colorado, Montana and Cornwall, England (gift).
11 specimens synthetic minerals (gift).
- HARVARD UNIVERSITY, Cambridge, Massachusetts.
1 specimen meteorite—New Baltimore, Pennsylvania (exchange).
- HOLMES, THOS. J., Chicago.
3 specimens fossil shells and wood—Midlothian, Illinois (gift).

- HUNTLEY, O. V., Riverdale, Illinois.
2 specimens mammoth bones—Lawrence Co., Illinois (gift).
- ILLINOIS CLAY PRODUCTS CO., Joliet, Illinois.
6 specimens clays, peat and briquettes—Goose Lake, Coal City, Illinois (gift).
- KAPING, HERMAN, Ingleside, Illinois.
Vertebra and rib of *Mastodon americanus*—Ingleside, Lake Co., Illinois (gift).
- KNOPP, E. B., Kirkland Lake, Ontario.
1 specimen tellurium (gift).
- LEAN, F. J., Calumet, Michigan.
4 specimens minerals—Calumet, Michigan (gift).
- LICEO DE COSTA RICA, San Jose, Costa Rica.
1 specimen basalt containing obsidian—Cebadilla, near Rio Grande, Costa Rica (gift).
- LINTON, DR. RALPH, Chicago.
1 specimen volcanic sand—St. Vincent Island (gift).
- MILLAR, AUSTIN Q., Murfreesboro, Arkansas.
11 specimens peridotite minerals—Pike Co., Arkansas (gift).
- MILLAR, HOWARD A., Murfreesboro, Arkansas.
13 specimens diamonds and its associated minerals—Pike Co., near Murfreesboro, Arkansas (gift).
- MITTAU, FELIX E., West Hartford, Connecticut.
10 specimens claystone concretions—Hartford, Connecticut (gift).
- MORONEY, JOHN J., Chicago.
1 specimen fire clay—Morton, Minnesota (gift).
- MORTON, JOY, Chicago.
1 fossil tooth—Fulton Co., Illinois (gift).
- NININGER, PROF. H. H., McPherson, Kansas.
1 specimen Carlton—Tucson meteorite—Tucson, Arizona (exchange).
- OZORA MARBLE QUARRIES CO., St. Louis, Missouri.
2 specimens Ozora marbles—Ozora, Missouri (gift).
- PAPER MILLS CO., THE, Chicago.
12 paraffined cups (gift).
- PERRY, MRS. MARY S., Chicago.
1 specimen colored limestone—Petoskey, Michigan (gift).
1 specimen obsidian—Obsidian Cliff, Yellowstone National Park, Montana (gift).
15 specimens fossil corals—Petoskey, Michigan (gift).
- PHILLIPS, R. L., Brazil, Indiana.
6 specimens minerals—Brazil, Indiana (gift).
- SALL MOUNTAIN CO., Chicago.
11 specimens asbestos products (gift).
- SALMEN, NAGIB, Baabda, Beyrouth, Syria.
1 specimen smoky quartz crystal—Theophilo Ottoni, Brazil (gift).
- TRISTAN, J. FID., San Jose de Costa Rica, Costa Rica.
2 specimens alunogen—Costa Rica, Central America (gift).
2 specimens shell marl—Costa Rica, Central America (gift).
- THURSTON, DR. FREDUS A., Chicago.
1 specimen gold ore showing free gold—Near Kenora, Ont. (gift).
- WALKER, DR. JAMES W., Chicago.
1 specimen fossil echinoid (gift).
- WENDLER, C., Geneva, Switzerland.
2 specimens meteorites—Olivenza, Badajoz, Spain (exchange).
- WHEELER, H. E., Chicago.
60 specimens minerals—Magnet Cove, Arkansas (gift).
- ZOLLER, WALTER G., Chicago.
1 specimen fossil tree of the Carboniferous Period—Zeigler Mines, Zeigler, Illinois (gift).

DEPARTMENT OF ZOOLOGY

- AMERICAN MUSEUM OF NATURAL HISTORY, New York City.
266 frogs and toads, 12 salamanders, 136 snakes, 277 lizards—China (exchange).
- AMMEN, MRS. W. J., Chicago.
1952 shells—Various localities (gift).
- AYER, EDWARD E., Chicago.
1 nudibranch mollusk—La Jolla, California (gift).

- BARBOUR, DR. THOMAS, Cambridge, Massachusetts.
2 coral snakes—Honduras (gift).
- BAYLIS, J., Chicago.
1 wasp—Chicago (gift).
- BERGSENG, E. STANLEY, Wisconsin.
2 snakes—Clark County, Wisconsin (gift).
- BIGELOW, H. A., Chicago.
1 West African palm civet—Belgian Congo, Africa (gift).
- BIRKHOLZ, H. G., La Porte, Indiana.
1 star-nosed mole—La Porte, Indiana (gift).
- BISHOP, DR. S. C., Albany, New York.
36 salamanders—Various localities (exchange).
- BRADLEY, H. E., Chicago.
1 flying lemur skin, 1 giant squirrel skull—Sumatra, East Indies (gift).
- BROOKS, MAJOR ALLAN, Okanagan Landing, B. C.
1 pigmy owl—Okanagan Landing, B. C. (gift).
- BRUNNER, FRANK, Flossmoor, Ill.
1 New York weasel—Flossmoor, Ill. (gift).
- BUSH, BENJAMIN O., Kalamazoo, Michigan.
1 American scoter—Kalamazoo, Michigan (gift).
- BUTLER, JULIUS W., Chicago.
6 mammal skulls—Salmon River, Idaho (gift).
- CARAWAY, B. M., Riverton, Wyoming.
1 mountain sheep—Near Riverton, Wyoming (gift).
- COALE, H. K., Highland Park, Illinois.
1 heron—Japan (gift).
1 heron—Congo (gift).
1 tanager—Paraguay (gift).
4 pine siskins, 1 snow bunting—Lake County, Illinois (gift).
1 tree-partridge—Formosa (gift).
- COLLINS, MAJOR A. M., Philadelphia, Pennsylvania.
240 butterflies, 3 moths—Belgian Congo, Africa (gift).
- CONOVER, H. B., Chicago.
40 mammals—Alaska (gift).
1 pied-billed grebe—Ceara, Brazil (gift).
2 gulls—Bolivia (gift).
- 1 Sabine gull, 1 parasitic jaeger—Alaska (gift).
2 birds—Italy (gift).
1 bird—Paraguay (gift).
- CORY, C. B. (deceased), Chicago.
4 gophers—Lake Geneva, Wisconsin (gift).
- DAHLGREN, DR. B. E., Chicago.
3167 wasps, ants, and nests—British Guiana (gift).
- DAVIS, WM. T., New Brighton, New York.
3 walking-sticks—Maspeth, New York (gift).
- DAWSON, CHARLES W., Muskogee, Oklahoma.
3 turtles—Muskogee, Oklahoma (gift).
- DURY, CHARLES, Cincinnati, Ohio.
6 beetles—Cincinnati, Ohio (gift).
- ECKSTORM, MRS. F. H., Brewer, Maine.
1 Hoy's shrew—Brewer, Maine (gift).
- ERWIN, RICHARD P., Boise, Idaho.
1 salamander, 12 frogs, 14 lizards, 12 snakes—Idaho (exchange).
- FERRISS, JAMES H., Joliet, Illinois.
36 fishes—Southern Texas (gift).
- FIELD MUSEUM OF NATURAL HISTORY.
Collected by G. K. Cherrie (James Simpson-Roosevelt Asiatic Expedition):
95 birds, 3 eggs—India.
5 mice—Ladak, India.
4 hawks—Red Sea.
- Collected by J. Friesser and H. C. Holling (Capt. Marshall Field British Columbia Expedition):
7 mountain goats, 1 elk, 1 mule deer, 1 rabbit, 1 squirrel, 6 mice, 15 birds—British Columbia.
- Collected by Major A. M. Collins and Edmund Heller (Capt. Marshall Field African Expedition):
187 mammals—Africa.
- Collected by Edmund Heller (Capt. Marshall Field Peruvian Expedition):
1 crab—Peru.
- Collected by Edmund Heller (Capt. Marshall Field African Expedition):
9 mammals, 4 snakes, 11 lizards, 1 centipede—Central Africa.

Collected by Ashley Hine (Capt. Marshall Field Canadian Expedition):
1 red squirrel, 3 chipmunks, 5 ground-squirrels—Banff, Canada.

106 birds, 4 gophers, 6 toads—Saskatchewan, Canada.

Collected by E. S. Riggs (Capt. Marshall Field Patagonian Expedition):

3 rodents, 9 lizards, 1 spider—Argentina.

Collected by C. C. Sanborn:

1 turtle—Highland Park, Illinois.

4 shrews, 7 mice—Lake County, Ill.

1 pocket gopher, 1 box turtle, Lacon, Illinois.

Collected by K. P. Schmidt and L. L. Walters (Capt. Marshall Field Honduras Expedition):

4 birds—Honduras.

Collected by G. F. Sternberg (Capt. Marshall Field Patagonian Expedition):

1 pampas hare, 1 armadillo skull—Patagonia.

Collected by L. L. Walters (Capt. Marshall Field Expedition to Georgia):

36 salamanders, 71 frogs, 8 alligator skins and skulls, 75 alligator eggs, 12 turtles, 23 lizards, 11 lizard eggs, 26 snakes, 1 beetle—Beachton, Georgia.

Collected by L. L. Walters:

1 Franklin's gopher—Chicago Ridge, Illinois.

Collected by L. L. Walters and H. L. Stoddard (Capt. Marshall Field Expedition to Georgia):

154 fishes—Beachton, Georgia.

49 fishes—Florida.

Collected by A. C. Weed and L. L. Pray (Capt. Marshall Field Expedition to Texas):

49 bugs, grasshoppers, flies, beetles, moths, parasites, ants—Brownsville, Texas.

Collected by A. C. Weed and C. C. Sanborn:

169 fishes—Beach, Illinois.

Collected by A. C. Weed, K. P. and F. J. W. Schmidt, L. L. Walters, C. C. Sanborn:

85 frogs and toads, 11 turtles, 20 snakes—Vicinity of Chicago.

Purchases:

26 mammals—Africa.

25 birds—Austria.

17 mammals—Bolivia.

1 duck hawk—Brewer, Maine.

1 bird—British Guiana.

100 birds—Chile.

63 mammals, 290 birds—Eastern Brazil.

120 fishes—Gainesville, Florida.

1 gray squirrel—Highland Park, Ill.

3 salamanders, 20 frogs, 3 snakes—Laurel, Maryland.

26 mammals, 378 birds—Maranhao Prov., Brazil.

7 snakes, 18 lizards, 2 scorpions—Negritos, Peru.

9 fishes—Oneida Lake, New York.

124 mammals, 6 birds, 3 snakes, 26 lizards—Papudo, Chile.

119 birds—South America.

1 bald eagle—Wainwright, Alberta.

8 fishes—Wood's Hole, Mass.

FIELD, STANLEY, Chicago.

2 African lions—Tsavo, Africa (gift).

FRENCH, G. H., Herrin, Illinois.

1 butterfly, 4 moths—Various localities (gift).

FRIERSON, L. S. Jr., Gayle, Louisiana.

10 salamanders, 3 frogs, 7 snakes, 8 lizards, 12 turtles, 1 millipede, 2 crayfish—Gayle, Louisiana (gift).

1 salamander, 8 frogs, 21 lizards, 10 snakes—Caddo Parish, Louisiana (exchange).

6 frogs, 5 snakes, 1 turtle—Frierson and Gayle, Louisiana (gift).

31 mollusks—Wallace Bayou, Gayle, Louisiana (gift).

FRIESSER, JULIUS, Chicago.

1 mammalskull—Kenosha, Wisconsin (gift).

1 lamprey—Holland, Michigan (gift).

1 parrot, 1 macaw—British Guiana (gift).

GERHARD, W. J., Chicago.

12 insects—Illinois and Louisiana (gift).

GREGORY, STEPHEN S., Chicago.

8 birds—Michigan (gift).

GUERET, E. N., Chicago.

3 insects—Illinois and Wisconsin (gift).

HELLMAYR, DR. C. E., Chicago.

4 birds—British Guiana and Argentina (gift).

- HELLMAYR, DR. C. E. and MRS. K., Chicago.
 12 beetles, 16 moths, 364 butterflies—Bavaria, Switzerland, France (gift).
- HIGHAM, J. F., Winnipeg, Canada.
 1 tree frog—Emerson, Manitoba (gift).
- HOLLING, H. C., Chicago.
 6 mink skulls—Leslie, Michigan (gift).
- HUMPHREY, GEORGE R., Ipswich, Massachusetts.
 1 abnormal turkey egg—Ipswich, Massachusetts (gift).
- JOHNSON, C. W., Boston, Mass.
 2 flies—Boston, Massachusetts (gift).
- KLAUBER, L. M., San Diego, California.
 8 lizards, 6 snakes—San Diego Co., California (gift).
- KNAPP, A. S., Chicago.
 1 woodchuck—Roselawn, Indiana (gift).
- KRUEGER, HANS, Spooner, Wisconsin.
 1 small-mouthed bass—Spooner, Wisconsin (gift).
- LANGABAUGH, J. J., Gray's Lake, Illinois.
 1 albino striped ground squirrel—Gray's Lake, Illinois (gift).
- LEVY, R., and NAIBURG, I., Chicago.
 1 weasel—Whitehall, Michigan (gift).
- LINCOLN PARK COMMISSION, Chicago.
 198 fishes—Various localities (gift).
- MANN, G., Chicago.
 1 skate—Azores Islands (gift).
- MARGOLD, J., Chicago.
 1 spider—Chicago (gift).
- MARSHALL, BYRON C., Imboden, Arkansas.
 1 damselfly, 5 beetles—Imboden, Arkansas (gift).
 14 beetles—Imboden, Arkansas (exchange).
- MCCREA, C. S., Chicago.
 1 mink—Chandlerville, Illinois (gift).
- MELGES, F. W., Chicago.
 1 albino opossum—Odin, Illinois (gift).
- MEYER, U. S., Shreveport, Louisiana.
 1 Ichneumon-fly, 1 beetle—Shreveport, Louisiana (gift).
- MONTEIRO, E. J., Rio Janeiro, Brazil.
 1 bee, 4 beetles—Itacurassa, Brazil (gift).
- MOORE, DR. A. R., Downer's Grove, Illinois.
 1 bald eagle—Joliet, Illinois (gift).
- MORDEN, W. J., Evanston, Illinois.
 1 Tibetan antelope, 1 Tibetan Sharpu sheep, 1 burrhel sheep—Tibet (gift).
- MUSEUM OF COMPARATIVE ZOOLOGY, Cambridge, Mass.
 10 rodents—Argentina (exchange).
 9 birds—Patagonia (exchange).
 33 frogs, 6 salamanders, 9 turtles—Various localities (exchange).
- MUSEUM OF VERTEBRATE ZOOLOGY, Berkeley, California.
 3 Hawaiian rats—Oahu, Hawaii (gift).
- MUSEUM OF ZOOLOGY, Ann Arbor, Michigan.
 22 fishes—Various localities (exchange).
- NARBO, DR. SVEN, Stavanger, Norway.
 359 caddice-flies, flies, beetles, butterflies, moths and parasites—Stavanger, Norway (gift).
- NEW YORK UNIVERSITY, New York City.
 33 frogs, 8 snakes—South Dakota (gift).
- OLSSON, AXEL A., Gloversville, New York.
 4 snakes, 65 lizards—Negritos, Peru (gift).
- ORR, MRS. F. B., Chicago.
 1 Belgian Griffon dog—(gift).
- OSGOOD, DR. W. H., Chicago.
 1 red squirrel, 2 flying squirrels, 4 red-backed mice—Michigan (gift).
- PRAY, L. L., Homewood, Illinois.
 1 cotton-tail rabbit, 6 chipmunks—Illinois and Michigan (gift).
 1 bug—Homewood, Illinois (gift).
- PSOTA, DR. F. J., Chicago.
 2 insects—Los Chorros, Venezuela (gift).
- RUECKERT, A. G., Chicago.
 1 coyote skull—Lake County, Illinois (gift).
 1 pine snake—Marion County, Florida (gift).
 1 diamond-backed rattlesnake—Marion County, Florida (exchange).

- SANBORN C. C., Highland Park, Ill.
 7 birds—Chicago (gift).
 7 frogs—Kansas City, Missouri (gift).
 1 muskrat—Waukegan, Illinois (gift).
- SCHMIDT, F. J. W., Stanley, Wisconsin.
 4 tree frogs, 2 snakes, 1 soft-shelled turtle—Stanley, Wisconsin (gift).
 31 frogs, 3 snakes, 2 turtles—Clark County, Wisconsin (gift).
- SCHMIDT, K. P., Homewood, Illinois.
 24 insects—Homewood, Illinois (gift).
- SCHMIDTZ, F. J., Elgin, Illinois.
 1 albino butterfly—Elgin, Illinois (gift).
- STODDARD, H. L., Beachton, Georgia.
 1 snake bird—Leon County, Florida (gift).
 7 snakes, 4 turtles—Beachton, Georgia (gift).
- SUMNER, DR. F. B., La Jolla, California.
 3 white-headed mice—Florida (gift).
- THOMPSON, DR. F. P., Chicago.
 1 Inyala antelope—Portuguese Africa (gift).
- UNIVERSITY OF OKLAHOMA,
 Norman, Oklahoma.
 6 frogs, 6 lizards, 6 turtles—Norman, Oklahoma (exchange).
 1 turtle—Dougherty, Oklahoma (exchange).
 31 frogs and toads, 1 lizard, 4 turtles—Norman and Okmulgee, Oklahoma (exchange).
 12 frogs—Okmulgee, Oklahoma (exchange).
- U. S. NATIONAL MUSEUM, Washington, D. C.
 326 fishes—El Salvador (exchange).
- VIOSCA, PERCY, JR., New Orleans, Louisiana.
 1 tree snake—New Orleans, Louisiana (gift).
- VON LENDERKE, JUSTUS and OSWALD, Chicago.
 11 hawks—James County, New Jersey (gift).
- VOY, DAVID A., Ackley, Iowa.
 1 albino meadow mouse—Ackley, Iowa (gift).
- WAIR, MRS. E. G., La Porte, Indiana.
 2 box turtles—La Porte County, Indiana (gift).
- WEED, A. C., Chicago.
 1 salamander larva, 26 snakes, 4 turtles—North Rose, New York (gift).
 493 fishes—Wayne and Chenango Counties, New York (gift).
 87 insects—New York and Illinois (gift).
- WOLFFSOHN, J. A., Papudo, Chile.
 18 crabs—Papudo, Chile (gift).
- WORTHINGTON, MRS. C. M., Chicago.
 1 manis skin—Borneo (gift).
- YOUNG, F. S., Chicago.
 1 gila monster—Wickenburg, Arizona (gift).
- ZOOLOGICAL SOCIETY OF SAN DIEGO, San Diego, California.
 10 lizards—San Diego County, California (gift).
 7 lizards, 10 snakes—San Diego County, California (exchange).

DIVISION OF PHOTOGRAPHY

- BENKE, H. C., Chicago.
 32 photographs of trees and plants.
- BREASTED, J. H., Chicago.
 6 negatives of statue of Senmut.
- CORY, MRS. CHARLES B., Chicago.
 20 prints of Seminole Indians.
- FIELD MUSEUM OF NATURAL HISTORY.
 Made by Division:
 8,564 prints, 1,529 negatives, 1,664 lantern slides.
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 146 negatives.
- Made by A. L. Kroeber:
 103 negatives of Peruvian natives, villages, landscapes.
- Purchased from Jan Kleykamp, New York:
 600 negatives of natives, scenery, animals of Cameroon, West Africa.
- GUNSAULUS, MISS HELEN C., Chicago.
 208 negatives of 104 Japanese sword guards.
 350 films made in Egypt, Palestine, India, Burma, Federal Malay States, China and Japan.



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380 prints of natives, villages, landscapes in the Marquesas Islands, Hawaii.

MITCHELL, JOHN J., Chicago.
36 prints of rhinoceros-horn cups.

VICTOR X-RAY CORPORATION,
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6 photographs of Taj Mahal, Agra, India.

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Société de Géographie d'Alger.
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Société des Sciences Naturelles du Maroc, Rabat.
South African Association for the Advancement of Sciences, Cape Town.
South African Department of Agriculture, Pretoria.
South African Museum, Cape Town.

ARGENTINA:

Academia Nacional de Ciencias, Córdoba.
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AUSTRALIA:

Australian Museum, Sydney.
Botanic Gardens and Government Domains, Sydney.
Commonwealth of Australia, Melbourne.
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Department of Agriculture, Wellington.

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Field Naturalists' Club, Melbourne.
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Public Library, Museum and Art Gallery, Adelaide.
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Royal Society of Queensland, Brisbane.
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Zoologisches Institut, Graz.

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Académie Royale de Belgique, Brussels.
Direction de l'Agriculture, Brussels.

Jardin Botanique de l'État, Brussels.
Musée du Congo, Brussels.
Musée Royal d'Histoire Naturelle de Belgique, Brussels.
Musées Royaux du Cinquantenaire, Brussels.
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Société Royale des Sciences, Liège.
Vereenigen Kruidkundig Genootschap Dodonea, Ghent.

BRAZIL:

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Canadian Arctic Expedition, Ottawa.
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Department of Mines, Ottawa.
Department of the Interior, Geological Survey, Ottawa.
Entomological Society of Ontario, Toronto.
Hamilton Association.
Horticultural Societies, Toronto.
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Minister of Education, Ontario, Toronto.
Provincial Museum, Toronto.
Royal Canadian Institute, Toronto.
Royal Society of Canada, Ottawa.
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University of Toronto.

CEYLON:

Colombo Museum.
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Royal Asiatic Society of North China, Shanghai.
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ECUADOR:

Academia Nacional de Historia, Quito.

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Institut Égyptien, Cairo.
Société Royale de Géographie, Cairo.

FEDERATED MALAY STATES:

Royal Asiatic Society, Malayan Branch, Singapore.

FIJI ISLANDS:

Fijian Society, Suva.

FINLAND:

Abo Akademi.
Societas pro Fauna et Flora Fennica, Helsingfors.
Suomen Museo, Helsingfors.

FRANCE:

Académie des Sciences, Paris.
École d'Anthropologie, Paris.
Laboratoire de Zoologie et de Physiologie Maritimes, Concarneau.
Musée d'Histoire Naturelle, Marseille.
Musée Guimet, Paris.
Muséum National d'Histoire Naturelle, Paris.
La Nature, Paris.

Société Dauphinoise d'Ethnographie et d'Anthropologie, Grenoble.
 Société d'Études Scientifiques, Angers.
 Société d'Ethnographie, Paris.
 Société d'Études des Sciences Naturelles, Reims.
 Société d'Histoire Naturelle, Toulouse.
 Société de Géographie, Paris.
 Société des Américanistes, Paris.
 Société des Sciences, Nancy.
 Société des Sciences Naturelles de Saône-et-Loire, Chalon-sur-Saône.
 Société Linnéenne, Bordeaux.
 Société Nationale d'Agriculture, Sciences et Arts, Angers.
 Société Nationale d'Horticulture de France, Paris.

GERMANY:

Akademie der Wissenschaften, Heidelberg.
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 Deutsche Dendrologische Gesellschaft, Bonn-Poppelsdorf.
 Deutsche Entomologische Gesellschaft, Berlin.
 Deutsche Gesellschaft für Anthropologie, Ethnologie und Urgeschichte, Berlin.
 Deutsche Morgenländische Gesellschaft, Leipzig.
 Deutscher Seefischerei Verein, Berlin.
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 Friedrich-Wilhelms Universität, Berlin.
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 Gesellschaft für Erdkunde, Berlin.
 Gesellschaft zur Beförderung der Gesamten Naturwissenschaften, Marburg.
 Hamburgische Universität.
 K. Museum für Völkerkunde, Berlin.
 K. Preussische Akademie der Wissenschaften, Berlin.
 K. Universitäts Bibliothek, Marburg.
 K. Universitäts Bibliothek, Munich.
 K. Zoologisches Museum, Berlin.
 Museum für Tierkunde und Völkerkunde, Dresden.
 Museum für Völkerkunde, Hamburg.
 Nassauischer Verein für Naturkunde, Wiesbaden.
 Naturhistorischer Verein der Preussischen Rheinlande und Westfalens, Bonn.

Naturwissenschaftlicher Verein, Bremen.
 Ornithologische Gesellschaft in Bayern, Munich.
 Physikalisch-Medizinische Sozietät, Erlangen.
 Schlesische Gesellschaft für Vaterländische Cultur, Breslau.
 Senckenbergische Naturforschende Gesellschaft, Frankfurt a.M.
 Thüringischer Botanischer Verein, Weimar.
 Verein für Naturkunde, Cassel.
 Verein für Vaterländische Naturkunde, Württemberg.
 Verein für Volkskunde, Berlin.
 Zoologisches Museum, Berlin.

GREAT BRITAIN:

Ashmolean Museum, Oxford.
 Ashmolean Natural History Society, Oxford.
 Birmingham Natural History and Philosophical Society.
 Brighton and Hove Natural History and Philosophical Society.
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 British Library of Political Science, London.
 British Museum, London.
 British Museum (Natural History), London.
 Cambridge Philosophical Society.
 Cardiff Naturalists' Society.
 Croydon Natural History Society.
 Dove Marine Laboratory, Cullercoats.
 Dumfriesshire and Galloway Natural History and Antiquarian Society, Dumfries.
 Fisheries Board, Edinburgh.
 Geological Society, Edinburgh.
 Geological Society, Liverpool.
 Geological Survey England and Wales, London.
 Geological Survey of Scotland, Edinburgh.
 Geologists' Association, London.
 Hill Museum, London.
 Hull Municipal Museum.
 Imperial Bureau of Entomology, London.
 Japan Society of London.
 Lancashire Sea Fisheries Laboratory, Liverpool.
 Leicester Museum, Art Gallery and Library.
 Linnean Society, London.
 Liverpool Biological Society.
 London School of Economics and Political Science.

Manchester Literary and Philosophical Society.

Manchester Museum.

Marine Biological Association, Plymouth.

National Indian Association, London.

National Library of Wales, Aberystwyth.

National Museum of Wales, Cardiff.

Royal Anthropological Institute of Great Britain and Ireland, London.

Royal Botanic Gardens, Edinburgh.

Royal Botanic Gardens, Kew.

Royal Colonial Institute, London.

Royal Geographical Society, London.

Royal Horticultural Society, London.

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Royal Society of Arts, London.

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School of Oriental Studies, London.

South London Entomological and Natural History Society.

Tolson Memorial Museum, Huddersfield.

Tring Zoological Museum.

University Museum, Oxford.

Victoria and Albert Museum, London.

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Zoological Society, London.

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Anthropological Society, Bombay.

Archaeological Survey, Allahabad.

Archaeological Survey, Burma, Rangoon.

Archaeological Survey, Calcutta.

Archaeological Survey, Madras.

Asiatic Society of Bengal, Calcutta.

Bihar and Orissa Research Society, Patna.

Bombay Natural History Society.

Botanical Survey, Calcutta.

Department of Agriculture, Madras.

Department of Agriculture, Poona.

Department of Agriculture, Pusa.

Geological Survey, Calcutta.

Government Cinchona Plantations, Calcutta.

Government Museum, Madras.

Government of India, Calcutta.

Hyderabad Archaeological Society.

Indian Museum, Calcutta.

Journal of Indian Botany, Madras.

Royal Botanic Garden, Calcutta.

University of Calcutta.

Zoological Survey of India, Calcutta.

IRELAND:

Belfast Naturalists' Field Club.

Department of Agriculture, Scientific Investigations, Dublin.

Royal Dublin Society.

Royal Irish Academy, Dublin.

ITALY:

Accademia Gioenia di Scienze Naturali, Catania.

Istituto Geografico de Agostini, Novara.

Museo Civico di Storia Naturale, Genoa.

R. Accademia delle Scienze, Naples.

R. Accademia delle Scienze di Torino.

R. Accademia Nazionale dei Lincei, Rome.

R. Orto Botanico Giardino Coloniale, Palermo.

R. Scuola Superiore di Agricoltura, Portici.

R. Società Geografica Italiana, Rome.

Società dei Naturalisti, Naples.

Società di Scienze Naturali ed Economiche, Florence.

Società Geologica Italiana, Rome.

Società Italiana de Scienze Naturali, Milan.

Società Romana di Antropologia, Rome.

JAPAN:

Anthropological Society of Tokyo.

Government General of Chosen.

Government Research Institute, Taihoku, Formosa.

Imperial Geological Society, Tokyo.

Ornithological Society, Tokyo.

Tohoku Imperial University, Sendai.

Tokyo Botanical Society.

JAVA:

Bataviaasch Genootschap van Kunsten en Wetenschappen, Batavia.

Department of Agriculture, Buitenzorg.

Encyclopaëdisch Bureau, Weltevreden.

Jardin Botanique, Weltevreden.

Java Instituut, Weltevreden.

K. Natuurkundige Vereeniging in Nederlandsch-Indie, Weltevreden.

MEXICO:

Instituto Geologico de Mexico.

Museo Nacional de Arqueologia, Historia y Etnografia, Mexico.

Secretaria de Agricultura y Fomento.

Direccion de Antropologia, Mexico.

Secretaria de Educacion Publica,
Mexico.
Sociedad Científica "Antonio Alzate,"
Mexico.
Sociedad de Geografía y Estadística,
Mexico.
Sociedad Geológica Mexicana, Mexico.

NETHERLANDS:

Bataafsch Genootschap der Proefonder-
vindelijks Wijsbegeerte, Rotterdam.
K. Akademie van Wetenschappen,
Amsterdam.
K. Instituut voor de Taal-Land-en
Volkenkunde van Nederlandsch In-
die, Hague.
K. Nederlandsch Aardijkskundig Ge-
nootschap, Amsterdam.
Museum voor Land-en Volkenkunde
en Maritiem Museum "Prins Hen-
drik," Rotterdam.
Nederlandsche Phytopathologische
Vereeniging, Wageningen.
Nederlandsche Vogelkundigen Club,
Leiden.
Rijks Ethnographisch Museum, Lei-
den.
Rijks Herbarium, Leiden.
Rijks Hoogere Land-Tuin-en Bosch-
bouwschool, Wageningen.
Rijks Museum van Natuurlijke His-
torie, Leiden.
Rijks Universiteit, Leiden.
Universiteit van Amsterdam.

NEW ZEALAND:

Auckland Institute and Museum, Wel-
lington.
Canterbury Museum, Christchurch.
Department of Agriculture, Wellin-
gton.
Department of Mines, Wellington.
Dominion Museum, Wellington.
Geological Survey, Wellington.
New Zealand Board of Science and
Art, Wellington.

NORWAY:

Bergen Museum.
Norsk Geologisk Forening, Kristiania.
Norges Geologiske Undersøkelse, Kris-
tiania.
Physiographiske Forening, Kristiania.
Tromsø Museum.
Zoologiske Museum, Kristiania.

PERU:

Cuerpo de Ingenieros de Minas, Lima.
Instituto Historico del Peru, Lima.
Revista del Archivo Nacional, Lima.

POLAND:

Académie Polonaise des Sciences et
des Arts, Cracovie.
Musei Polonici Historiae Naturales,
Warsaw.
Société Botanique de Pologne, War-
saw.

PORTUGAL:

Agencia Geral das Colonias, Lisbon.
Biblioteca Nacional, Lisbon.
Inspeção das Bibliotecas Arquivos,
Lisbon.
Universidade de Lisboa.

ROUMANIA:

Université de Jassy.

RUSSIA:

Académie Impériale des Sciences, Len-
ingrad.
Botanical Garden, Leningrad.
Société des Naturalistes, Leningrad.

SPAIN:

Institució Catalana d'Historia Natu-
ral, Barcelona.
Junta de Ciencias Naturals, Barcelona.
Junta para Ampliación de Estudios e
Investigaciones Científicas, Madrid.
R. Academia de Ciencias Exactas,
Físicas y Naturales, Madrid.
R. Academia de Ciencias y Arte, Bar-
celona.
Sociedad Española de Historia Natu-
ral, Madrid.

SWEDEN:

Göteborgs Botaniska Trädgård.
K. Biblioteket, Stockholm.
K. Svenska Vetenskapsakademien,
Stockholm.
K. Vitterhets Historie och Antikvitets
Akademien, Stockholm.
Lunds Universitet.
Sveriges Offentliga Bibliotek, Stock-
holm.
Svenska Sällskapet för Antropologi
och Geografi, Stockholm.
Universitet, Biblioteket, Upsala.

SWITZERLAND:

Botanischer Garten, Bern.
Botanisches Museum, Zürich.
Conservatoire et Jardin Botaniques,
Geneva.
Musées d'Histoire Naturelle, Lau-
sanne.
Naturforschende Gesellschaft, Basel.
Naturforschende Gesellschaft, Zürich.
Naturhistorisches Museum, Basel.
Société Botanique, Geneva.
Société de Physique et d'Histoire
Naturelle, Geneva.

Société Helvétique des Sciences Naturelles, Bern.
Société Neuchateloise de Géographie, Neuchâtel.
Société Zoologique, Geneva.

URUGUAY:

Museo Nacional, Montevideo.

VENEZUELA:

Cultura Venezolana, Caracas.

WEST INDIES:

Academia Nacional de Artes y Letras, Havana.
Agricultural Experiment Station, Porto Rico.
Biblioteca Nacional, Havana.
Department of Agriculture, Bridgetown.
Department of Agriculture, Kingston.
Insular Experiment Station, Rio Piedras.
Liceo se Costa Rica, San José.
Trinidad and Tobago Department of Agriculture, Port of Spain.
Universidad de Habana.

Betim Pass Leme, Alberto, Rio de Janeiro (gift).

Clodet, R., Geneva.
Darmstadter, Ernst, Munich.
Delacour, Jean, Paris.
Dollfus, Robert, Paris.
Dunod, H., Paris.
Eickstedt, Egon V., Vienna (gift).
Ferguson, John C., Peking (gift).
Gleerup, C. W. K., Lund.
Hartland, Sidney E., Gloucester.
Hawkins, Phay H., Absarokee (gift).
Hersels, Carlos, Goyaz (gift).
Herrera, Moises, Mexico.
Huard, V. A., Quebec.
Kummel, Otto, Berlin (gift).
Lawson, Alexander, West Kensington (gift).

Lehmann-Nitsche, Robert, La Plata.

Leon, Nicolas, Moscow.

Meneaux, A., Paris.

Mertens, Robert, Frankfurt a. M.

Milant, Mme. Léon de, Nice (gift).

Monaco, Attilio, Rome (gift).

Nash, Charles M., Toronto (gift).

Neprud, Carl, Manchuria (gift).

Nordenskiöld, Erland, Göteborg.

Ortes, Felix P., Buenos Aires.

Perkins, Janet, Geneva (gift).

Porter, Carlos E., Santiago de Chile.

Rahr, M. E., Brussels (gift).

Riechmann and Company, Halle.

Rivet, P., Paris.

Ruiz, Mariano N., Comitán Chiapas (gift).

Schlaginhaufen, Otto, Zürich.

Schmidt, W., Vienna.

Smith, Harlan I., Ottawa.

Vignati, Milciades Aloy, Buenos Aires.

ALABAMA:

Anthropological Society, Montgomery.

CALIFORNIA:

Agricultural Experiment Station, Berkeley.

Board of Fish and Game Commissioners, Sacramento.

California Academy of Sciences, San Francisco.

Cooper Ornithological Club, Hollywood.

Department of Agriculture, Sacramento.

Natural History Museum, San Diego.

Pomona College, Claremont.

San Diego Society of Natural History, Scripps Institution of Biological Research, La Jolla.

Southern California Academy of Sciences, Los Angeles.

Southwest Museum, Los Angeles.

Stanford University.

State Mining Bureau, Sacramento.

University of California, Berkeley.

COLORADO:

Bureau of Mines, Denver.

Colorado College, Colorado Springs.

Colorado Museum of Natural History, Denver.

State Historical and Natural History Society, Denver.

CONNECTICUT:

Agricultural Experiment Station, New Haven.

Connecticut Academy of Arts and Sciences, New Haven.

Hartford Public Library.

Osborn Botanical Laboratory, New Haven.

State Board of Fisheries and Game, Hartford.

State Geological and Natural History Survey, Hartford.

Storrs Agricultural Experiment Station.

Yale University, New Haven.

FLORIDA:

State Geological Survey, Tallahassee.

GEORGIA:

Geological Survey, Atlanta.

HAWAII:

Agricultural Experiment Station,
Honolulu.
Bernice Pauahi Bishop Museum, Hono-
lulu.
Board of Commissioners of Agriculture
and Forestry, Honolulu.
Hawaiian Entomological Society,
Honolulu.
Hawaiian Volcano Observatory, Hono-
lulu.
Hawaiian Sugar Planters' Association,
Honolulu.
University of Hawaii, Honolulu.

IDAHO:

Mining Industry, Boise.
State Historical Society of Idaho,
Boise.

ILLINOIS:

Agricultural Experiment Station,
Urbana.
Art Institute of Chicago.
Audubon Society, Chicago.
Augustana College, Rock Island.
Board of Education, Chicago.
Chicago Historical Society.
Chicago Public Library.
Division of Natural History Survey,
Urbana.
Forestry Service, Urbana.
Geographic Society, Chicago (gift).
Hardwood Research, Chicago (gift).
Isaak Walton League of America,
Chicago (gift).
John Crerar Library, Chicago.
Newberry Library, Chicago.
Northwestern University, Evanston.
Open Court Publishing Company,
Chicago.
State Academy of Science, Springfield.
State Board of Agriculture, Spring-
field.
State Geological Survey, Urbana.
State Historical Library, Springfield.
State Water Survey, Urbana.
University of Chicago.
University of Illinois, Urbana.

INDIANA:

Academy of Science, Indianapolis.
Department of Conservation, Indian-
apolis.
Indiana University, Bloomington.
John Herron Art Institute, Indianap-
olis.
Legislative Reference Bureau, Indian-
apolis.
Purdue University, Lafayette.
University of Notre Dame.

IOWA:

Academy of Science, Des Moines.
Historical, Memorial and Art Depart-
ment, Des Moines.
Iowa Geological Survey, Des Moines.
Iowa Horticultural Society, Des
Moines.
Iowa State College, Ames.
University of Iowa, Iowa City.

KANSAS:

Agricultural Experiment Station,
Manhattan.
State Board of Agriculture, Topeka.
State Geological Survey, Lawrence.
State Historical Society, Topeka.
University of Kansas, Lawrence.

KENTUCKY:

Agricultural Experiment Station,
Louisville.
Kentucky Geological Survey, Frank-
fort.

LOUISIANA:

Agricultural Experiment Station,
Baton Rouge.

MAINE:

Agricultural Experiment Station,
Orono.
Bowdoin College, Brunswick.
Portland Public Library.
Portland Society of Natural History.

MARYLAND:

Agricultural Experiment Station,
College Park.
Esch Pratt Free Library, Baltimore.
Johns Hopkins University, Baltimore.
Maryland Academy of Science, Bal-
timore.

MASSACHUSETTS:

Agricultural Experiment Station,
Amherst.
American Academy of Arts and Sci-
ences, Boston.
American Antiquarian Society, Wor-
cester.
Boston Public Library.
Harvard College, Museum of Com-
parative Zoology, Cambridge.
Harvard University, Arnold Arbore-
tum, Jamaica Plain.
Harvard University, Gray Herbarium,
Cambridge.
Museum of Fine Arts, Boston.
New Bedford Free Library.
Peabody Institute.
Peabody Museum, Cambridge.
Peabody Museum, Salem.

Phillips Academy, Andover.
Salem Public Library.
Smith College, Northampton.
Springfield City Library Association.
Williams College, Williamstown.

MICHIGAN:

Agricultural Experiment Station,
Agricultural College.
Department of Conservation, Geo-
logical Survey Division, Lansing.
Detroit Institute of Art.
Grand Rapids Public Library.
Michigan Academy of Science, Ann
Arbor.
Michigan College of Mines, Houghton.
Michigan State Library, Lansing.
State Board of Agriculture, Lansing.
State Board of Library Commissions,
Lansing.
University of Michigan, Ann Arbor.

MINNESOTA:

Agricultural Experiment Station,
University Farm.
Minneapolis Institute of Arts.
Minnesota Historical Society, Saint
Paul.
Saint Paul Institute.
University of Minnesota, Minneapolis.

MISSISSIPPI:

Agricultural Experiment Station,
Agricultural College.
Mississippi State Geological Survey,
Jackson.

MISSOURI:

Agricultural Experiment Station,
Columbia.
Bureau of Geology and Mines, Rolla.
City Art Museum, Saint Louis.
Missouri Botanic Garden, Saint Louis.
Missouri Historical Society, Columbia.
Saint Louis Public Library.
Saint Louis University.
University of Missouri School of Mines,
Rolla.
Washington University, Saint Louis.

NEBRASKA:

University of Nebraska, Lincoln.

NEVADA:

Agricultural Experiment Station,
Reno.

NEW JERSEY:

Agricultural Experiment Station,
Trenton.
Department of Conservation and
Development, Trenton.
Newark Museums Association.
Princeton University.

NEW MEXICO:

Historical Society, Santa Fe.
New Mexico Museum, Santa Fe.

NEW YORK:

Agricultural Experiment Station,
Geneva.
American Academy in Rome, New
York.
American Geographical Society, New
York.
American Association of Museums,
New York (gift).
American Museum of Natural History,
New York.
Asia Publishing Company, New York.
Brooklyn Botanic Garden.
Brooklyn Institute of Arts and Sci-
ences.
Buffalo Society of Natural Sciences.
Columbia University, New York.
Cooper Union for the Advancement of
Science and Art, New York.
Cornell University, Ithaca.
Forest and Stream Publishing Compa-
ny, New York.
Garden Club of America, New York.
Inter-American Magazine, New York.
Japan Society, New York.
Metropolitan Museum of Art, New
York.
Museum of the American Indian, New
York.
New York Academy of Sciences,
New York.
New York Botanical Garden, New
York.
New York Historical Society, New
York.
Pratt Institute, New York.
Public Library, New York.
Rockefeller Foundation, New York.
State College of Forestry, Syracuse.
State Library, Albany.
State Museum, Albany.
Staten Island Institute of Arts and
Sciences, New York.
Stone Publishing Company, New York.
University of the State of New York,
Albany.
Vassar College, Poughkeepsie.
Zoological Society, New York.

NORTH CAROLINA:

Elisha Mitchell Scientific Society,
Chapel Hill.

NORTH DAKOTA:

Biological Station, University Station.
Geological Survey, University Station.
Historical Society, Grand Forks.
University of North Dakota, University.



AMERICAN BALD EAGLE.

Taxidermy by Mr. Ashley Hine.

OHIO:

Agricultural Experiment Station,
Wooster.
Cincinnati Museum Association.
Cincinnati Society of Natural History.
Cleveland Museum of Art.
Cleveland Public Library.
Denison University, Granville.
Geological Survey, Columbus.
Ohio Academy of Science, Columbus.
State Archaeological and Historical
Society, Columbus.
State University, Columbus.
University of Cincinnati.
Wilson Ornithological Club, Oberlin.

OKLAHOMA:

Oklahoma Academy of Science,
Norman.
University of Oklahoma, Norman.

OREGON:

Agricultural Experiment Station,
Corvallis.
University of Oregon, Eugene.

PENNSYLVANIA:

Academy of Natural Sciences, Phila-
delphia.
American Philosophical Society, Phila-
delphia.
Bryn Mawr College.
Bureau of Topographical and Geolog-
ical Survey, Harrisburg.
Carnegie Institute, Pittsburgh.
Carnegie Library, Pittsburgh.
Carnegie Museum, Pittsburgh.
Dropsie College, Philadelphia.
Engineers' Society of Western Penn-
sylvania, Pittsburgh.
Fish Culturists' Association, Phila-
delphia.
Franklin Institute, Philadelphia.
Lehigh University, Bethlehem.
Pennsylvania Museum and School of
Industrial Art, Philadelphia.
Philadelphia College of Pharmacy.
Philadelphia Commercial Museum.
Sullivant Moss Society, Pittsburgh.
Tioga Point Museum, Athens.
University of Pennsylvania, Phila-
delphia.
University of Pennsylvania, Museum,
Philadelphia.
Wagner Free Institute of Science,
Philadelphia.

PHILIPPINE ISLANDS:

Bureau of Education, Manila.
Department of Agriculture, Manila.
Department of Agriculture and
Natural Resources, Manila.
Department of Interior, Bureau of
Science, Manila.

SOUTH CAROLINA:

Charleston Museum.

SOUTH DAKOTA:

Agricultural Experiment Station,
Brookings.
Geological and Natural History Sur-
vey, Vermilion.

TENNESSEE:

Department of Education, Division of
Geology, Nashville.

TEXAS:

Agricultural Experiment Station,
College Station.
Scientific Society, San Antonio.
University of Texas, Austin.

VERMONT:

Agricultural Experiment Station,
Burlington.
State Geological Survey, Burlington.

VIRGINIA:

Agricultural Experiment Station,
Charlottesville.
State Forester, Charlottesville.
State Library, Richmond.
University of Virginia, Charlottesville.
Virginia Geological Survey, Charlottes-
ville.

WASHINGTON:

Agricultural Experiment Station,
Seattle.
Department of Conservation and
Development, Division of Geology,
Olympia.
Mountaineers, Seattle.
Pacific Northwest Bird and Mammal
Society, Seattle.
Puget Sound Biological Station,
Seattle.
Washington University, Seattle.
Washington University, Historical So-
ciety, Seattle.

WASHINGTON, D. C.:

American Association for the Advance-
ment of Science (gift).
American Mining Congress.
Association for the Study of Negro
Life and History.
Bahdi Library Committee.
Carnegie Endowment for Interna-
tional Peace (gift).
Carnegie Institution of Washington
(gift).
Daily Science News Bulletin.
Library of Congress.
National Academy of Science.

National Association of Audubon Societies.
National Parks Bulletin.
National Research Council.
Pan American Union.
Smithsonian Institution.
United States Government.

WEST VIRGINIA:

Agricultural Experiment Station,
Morgantown.
State Department of Agriculture,
Charleston.
West Virginia University, Morgan-
town.

WISCONSIN:

Agricultural Experiment Station,
Madison.
Beloit College.
Geological and Natural History Sur-
vey, Madison.
Public Museum of Milwaukee.
State Horticultural Society, Madison.
University of Wisconsin, Madison.
Wisconsin Archaeological Society,
Madison.

Alleman, Gellert, Swarthmore (gift).
Ames, Oakes, Boston.
Ayer, Edward E., Chicago (gift).
Bailey, L. H., Ithaca.
Barnes, R. Magoon, Lacon (gift).
Burket, Walter C., (gift).
Chalmers, William J., Chicago (gift).
Cockerell, T. D. A., Boulder.
Cook, Melville T., Porto Rico.
Darlington, H. T., East Lansing.
Davies, D. C., Chicago (gift).
Deane, Ruthven, Chicago (gift).
Eckstrom, Mrs. Fanny, Brewer (gift).
Evans, Alexander W., New Haven.
Farwell, Oliver A., Detroit.
Ferry, Mrs. A., Chicago (gift).

Field, Stanley, Chicago (gift).
Gerhard, W. J., Chicago (gift).
Godby, A. H., Carrsville (gift).
Gore, Willard C., Chicago (gift).
Harper, Roland M., University (gift).
Hellmayr, C. E., Chicago (gift).
Husband, Rachel, Lawrence (gift).
Jeançon, Jean Allard, Denver.
Laufer, Berthold, Chicago (gift).
Lewis, A. B., Chicago (gift).
Ligare, A. G., Glencoe.
Lindsey, A. W., Granville (gift).
Linton, Ralph, Chicago (gift).
McBride, J. Francis, Chicago (gift).
Mason, J. Alden, New York (gift).
Miller, Robert B., Urbana (gift).
Mills, William C., Columbus.
Millsbaugh, Mrs. C. F., Chicago (gift).
Morse, Edward S., Salem.
Osborn, Henry F., New York.
Osgood, Wilfred H., Chicago (gift).
Pearson, T. Gilbert, New York (gift).
Pittier, H., Washington.
Price, Ira M., Chicago (gift).
Record, Samuel J., New Haven (gift).
Reed, H. D., Ithaca.
Richmond, Charles W., Washington
(gift).
Riggs, Elmer S., Chicago (gift).
Robinson, B. L., Cambridge.
Roewode, K., New York (gift).
Rogers, A. F., Stanford (gift).
Safford, W. E., Washington (gift).
Schmidt, Karl P., Chicago (gift).
Sherff, Earl E., Chicago (gift).
Standley, Paul C., Washington (gift).
Starr, Frederick, Seattle.
Sternberg, Charles M., Oakley (gift).
Tozzer, Alfred M., Cambridge.
Viosca, Percy Jr., New Orleans (gift).
Walcott, Robert H., Lincoln (gift).
Waterman, T. T., Fresno (gift).
Wheeler, H. E., Chicago (gift).
Zimmer, John T., Chicago (gift).

ARTICLES OF INCORPORATION

STATE OF ILLINOIS

DEPARTMENT OF STATE

WILLIAM H. HINRICHSEN, *Secretary of State.*

TO ALL TO WHOM THESE PRESENTS SHALL COME, GREETING:

Whereas, a Certificate duly signed and acknowledged having been filed in the office of the Secretary of State, on the 16th day of September, A. D. 1893, for the organization of the COLUMBIAN MUSEUM OF CHICAGO, under and in accordance with the provisions of "An Act Concerning Corporations," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which certificate is hereto attached.

Now, therefore, I, William H. Hinrichsen, Secretary of State of the State of Illinois, by virtue of the powers and duties vested in me by law, do hereby certify that the said COLUMBIAN MUSEUM OF CHICAGO is a legally organized Corporation under the laws of this State.

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State. Done at the City of Springfield, this 16th day of September, in the year of our Lord one thousand eight hundred and ninety-three, and of the Independence of the United States the one hundred and eighteenth.

W. H. HINRICHSEN,
Secretary of State.

[SEAL]

TO HON. WILLIAM H. HINRICHSEN,

SECRETARY OF STATE:

SIR:

We, the undersigned citizens of the United States, propose to form a corporation under an act of the General Assembly of the State of Illinois, entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof; and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is the "COLUMBIAN MUSEUM OF CHICAGO."

2. The object for which it is formed is for the accumulation and dissemination of knowledge, and the preservation and exhibition of objects illustrating Art, Archæology, Science and History.

3. The management of the aforesaid museum shall be vested in a Board of FIFTEEN (15) TRUSTEES, five of whom are to be elected every year.

4. The following named persons are hereby selected as the Trustees for the first year of its corporate existence:

Edward E. Ayer, Charles B. Farwell, George E. Adams, George R. Davis, Charles L. Hutchinson, Daniel H. Burnham, John A. Roche, M. C. Bullock, Emil G. Hirsch, James W. Ellsworth, Allison V. Armour, O. F. Aldis, Edwin Walker, John C. Black and Frank W. Gunsaulus.

5. The location of the Museum is in the City of Chicago, County of Cook, and State of Illinois.

(Signed),

George E. Adams, C. B. Farwell, Sidney C. Eastman, F. W. Putnam, Robert McCurdy, Andrew Peterson, L. J. Gage, Charles L. Hutchinson, Ebenezer Buckingham, Andrew McNally, Edward E. Ayer, John M. Clark, Herman H. Kohlsaat, George Schneider, Henry H. Getty, William R. Harper, Franklin H. Head, E. G. Keith, J. Irving Pearce, Azel F. Hatch, Henry Wade Rogers, Thomas B. Bryan, L. Z. Leiter, A. C. Bartlett, A. A. Sprague, A. C. McClurg, James W. Scott, Geo. F. Bissell, John R. Walsh, Chas. Fitzsimmons, John A. Roche, E. B. McCagg, Owen F. Aldis, Ferdinand W. Peck, James H. Dole, Joseph Stockton, Edward B. Butler, John McConnell, R. A. Waller, H. C. Chatfield-Taylor, A. Crawford, Wm. Sooy Smith, P. S. Peterson, John C. Black, Jno. J. Mitchell, C. F. Gunther, George R. Davis, Stephen A. Forbes, Robert W. Patterson, Jr., M. C. Bullock, Edwin Walker, George M. Pullman, William E. Curtis, James W. Ellsworth, William E. Hale, Wm. T. Baker, Martin A. Ryerson, Huntington W. Jackson, N. B. Ream, Norman Williams, Melville E. Stone, Bryan Lathrop, Eliphalet W. Blatchford, Philip D. Armour.

STATE OF ILLINOIS }
COOK COUNTY } ss.

I, G. R. MITCHELL, a NOTARY PUBLIC in and for said County, do hereby certify that the foregoing petitioners personally appeared before me and acknowledged severally that they signed the foregoing petition as their free and voluntary act for the uses and purposes therein set forth.

Given under my hand and notarial seal this 14th day of September, 1893.

G. R. MITCHELL,

[SEAL]

NOTARY PUBLIC, COOK COUNTY, ILL.

CHANGE OF NAME.

Pursuant to a resolution passed at a meeting of the corporate members held the 25th day of June, 1894, the name of the COLUMBIAN MUSEUM was changed to FIELD COLUMBIAN MUSEUM. A certificate to this effect was filed June 26, 1894, in the office of the Secretary of State for Illinois.

CHANGE OF NAME.

Persuant to a resolution passed at a meeting of the corporate members held the 8th day of November, 1905, the name of the FIELD COLUMBIAN MUSEUM was changed to FIELD MUSEUM OF NATURAL HISTORY. A certificate to this effect was filed November 10, 1905, in the office of the Secretary of State for Illinois.

CHANGE IN ARTICLE 3.

Pursuant to a resolution at a meeting of the corporate members held the 10th day of May, 1920, the management of FIELD MUSEUM OF NATURAL HISTORY shall be invested in a Board of TWENTY-ONE (21) TRUSTEES, who shall be elected in such manner and for such time and term of office as may be provided for by the By-Laws. A certificate to this effect was filed May 21, 1920, in the office of the Secretary of State for Illinois.

AMENDED BY-LAWS

JANUARY 1926

ARTICLE I

MEMBERS

SECTION 1. Members shall be of eleven classes, Corporate Members, Honorary Members, Patrons, Benefactors, Fellows, Life Members, Non-Resident Life Members, Associate Members, Non-Resident Associate Life Members, Sustaining Members, and Annual Members.

SECTION 2. The Corporate Members shall consist of the persons named in the articles of incorporation, and of such other persons as shall be chosen from time to time by the Board of Trustees at any of its meetings, upon the recommendation of the Executive Committee; provided, that such person named in the articles of incorporation shall, within ninety days from the adoption of these By-Laws, and persons hereafter chosen as Corporate Members shall, within ninety days of their election, pay into the treasury the sum of twenty dollars (\$20.00) or more. Corporate Members becoming Life Members, Patrons or Honorary Members shall be exempt from dues. Annual meetings of said Corporate Members shall be held at the same place and on the same day that the annual meeting of the Board of Trustees is held.

SECTION 3. Honorary Members shall be chosen by the Board from among persons who have rendered eminent service to science, and only upon unanimous nomination of the Executive Committee. They shall be exempt from all dues.

SECTION 4. Patrons shall be chosen by the Board upon recommendation of the Executive Committee from among persons who have rendered eminent service to the Museum. They shall be exempt from all dues, and, by virtue of their election as Patrons, shall also be Corporate Members.

SECTION 5. Any person contributing or devising the sum of One Hundred Thousand Dollars (\$100,000.00) in cash, or securities, or property to the funds of the Museum, may be elected a Benefactor of the Museum.

SECTION 6. Any person contributing the sum of Five Thousand Dollars (\$5,000.00) in cash or securities to the funds of the Museum, may be elected a Fellow of the Museum, who after being so elected shall have the right in perpetuity to appoint the successor in said Fellowship.

SECTION 7. Any person paying into the treasury the sum of Five Hundred Dollars (\$500.00), at any one time, shall, upon the unanimous vote of the Board, become a Life Member. Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of One Hundred Dollars (\$100.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Life Member. Non-Resident Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to members of the Board of Trustees.

SECTION 8. Any person paying into the treasury of the Museum the sum of one hundred dollars (\$100.00), at any one time, shall upon the unanimous vote of the Board, become an Associate Member. Associate Members shall be

entitled to: tickets admitting member and members of family, including non-resident home guests; all publications of the Museum, if so desired; reserved seats for all lectures and entertainments under the auspices of the Museum, provided reservation is requested in advance; and admission of holder of membership and accompanying party to all special exhibits and Museum functions day or evening. Any person residing fifty miles or more from the city of Chicago, paying into the treasury the sum of Fifty Dollars (\$50.00) at any one time, shall, upon the unanimous vote of the Board, become a Non-Resident Associate Life Member. Non-Resident Associate Life Members shall be exempt from all dues, and shall enjoy all the privileges and courtesies of the Museum that are accorded to Associate Members.

SECTION 9. Sustaining Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of twenty-five dollars (\$25.00), payable within thirty days after notice of election and within thirty days after each recurring annual date. This Sustaining Membership entitles the member to free admission for the member and family to Museum on any day and allows 25 admission coupons, which may be used by any one, the Annual Report and such other Museum documents or publications as may be requested in writing. When a Sustaining Member has paid the annual fee of \$25.00 for six years, such member shall be entitled to become an Associate Member.

SECTION 10. Annual Members shall consist of such persons as are selected from time to time by the Board of Trustees at any of its meetings, and who shall pay an annual fee of ten dollars (\$10.00), payable within thirty days after each recurring annual date. An Annual Membership shall entitle the member to a card of admission for the member and family during all hours when the Museum is open to the public, and free admission for the member and family to all Museum lectures or entertainments. This membership will also entitle the holder to the courtesies of the membership privileges of every Museum of note in the United States and Canada, so long as the existing system of co-operative interchange of membership tickets shall be maintained, including tickets for any lectures given under the auspices of any of the Museums during a visit to the cities in which the coöperative museums are located.

SECTION 11. All membership fees, excepting Sustaining and Annual, shall hereafter be applied to a permanent Membership Endowment Fund, the interest only of which shall be applied for the use of the Museum as the Board of Trustees may order.

ARTICLE II

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of twenty-one members. The respective members of the Board now in office, and those who shall hereafter be elected, shall hold office during life. Vacancies occurring in the Board shall be filled at a regular meeting of the Board, upon the nomination of the Executive Committee made at a preceding regular meeting of the Board, by a majority vote of the members of the Board present.

SECTION 2. Regular meetings of the Board shall be held on the third Monday of each month. Special meetings may be called at any time by the President, and shall be called by the Secretary upon the written request of three Trustees. Five Trustees shall constitute a quorum, except for the election of officers or the adoption of the Annual Budget, when seven Trustees shall be required, but meetings may be adjourned by any less number from day to day, or to a day fixed, previous to the next regular meeting.

SECTION 3. Reasonable written notice, designating the time and place of holding meetings, shall be given by the Secretary.

ARTICLE III

HONORARY TRUSTEES

SECTION 1. As a mark of respect, and in appreciation of services performed for the Institution, those Trustees who by reason of inability, on account of change of residence, or for other cause or from indisposition to serve longer in such capacity shall resign their place upon the Board, may be elected, by a majority of those present at any regular meeting of the Board, an Honorary Trustee for life. Such Honorary Trustee will receive notice of all meetings of the Board of Trustees, whether regular or special, and will be expected to be present at all such meetings and participate in the deliberations thereof, but an Honorary Trustee shall not have the right to vote.

ARTICLE IV

OFFICERS

SECTION 1. The officers shall be a President, a First Vice-President, a Second Vice-President, a Third Vice-President, a Secretary, an Assistant Secretary and a Treasurer. They shall be chosen by ballot by the Board of Trustees, a majority of those present and voting being necessary to elect. The President, the First Vice-President, the Second Vice-President, and the Third Vice-President shall be chosen from among the members of the Board of Trustees. The meeting for the election of officers shall be held on the third Monday of January of each year, and shall be called the Annual Meeting.

SECTION 2. The officers shall hold office for one year, or until their successors are elected and qualified, but any officer may be removed at any regular meeting of the Board of Trustees by a vote of two-thirds of all the members of the Board. Vacancies in any office may be filled by the Board at any meeting.

SECTION 3. The officers shall perform such duties as ordinarily appertain to their respective offices, and such as shall be prescribed by the By-Laws, or designated from time to time by the Board of Trustees.

ARTICLE V

THE TREASURER

SECTION 1. The Treasurer shall be custodian of the funds of the Corporation except as hereinafter provided. He shall make disbursements only upon warrants drawn by the Director and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

SECTION 2. The securities and muniments of title belonging to the corporation shall be placed in the custody of some Trust Company of Chicago to be designated by the Board of Trustees, which Trust Company shall collect the income and principal of said securities as the same become due, and pay same to the Treasurer, except as hereinafter provided. Said Trust Company shall allow access to and deliver any or all securities or muniments of title to the joint order of the following officers, namely The President or one of the Vice-Presidents, jointly with the Chairman, or one of the Vice-Chairmen, of the Finance Committee of the Museum.

SECTION 3. The Treasurer shall give bond in such amount, and with such sureties as shall be approved by the Board of Trustees.

SECTION 4. The Harris Trust & Savings Bank of Chicago shall be Custodian of "The N. W. Harris Public School Extension of Field Museum" fund. The bank shall make disbursements only upon warrants drawn by the Director

and countersigned by the President. In the absence or inability of the Director, warrants may be signed by the Chairman of the Finance Committee, and in the absence or inability of the President, may be countersigned by one of the Vice-Presidents, or any member of the Finance Committee.

ARTICLE VI

THE DIRECTOR

SECTION 1. The Board of Trustees shall elect a Director of the Museum, who shall remain in office until his successor shall be elected. He shall have immediate charge and supervision of the Museum, and shall control the operations of the Institution, subject to the authority of the Board of Trustees and its Committees. The Director shall be the official medium of communication between the Board, or its Committees, and the scientific staff and maintenance force.

SECTION 2. There shall be four scientific departments of the Museum—Anthropology, Botany, Geology and Zoology; each under the charge of a Curator, subject to the authority of the Director. The Curators shall be appointed by the Board upon the recommendation of the Director, and shall serve during the pleasure of the Board. Subordinate staff officers in the scientific departments shall be appointed and removed by the Director upon the recommendation of the Curators of the respective Departments. The Director shall have authority to employ and remove all other employees of the Museum.

SECTION 3. The Director shall make report to the Board at each regular meeting, recounting the operations of the Museum for the previous month. At the Annual Meeting, the Director shall make an Annual Report, reviewing the work for the previous year, which Annual Report shall be published in pamphlet form for the information of the Trustees and Members, and for free distribution in such number as the Board may direct.

ARTICLE VII

AUDITOR

SECTION 1. The Board shall appoint an Auditor, who shall hold his office during the pleasure of the Board. He shall keep proper books of account, setting forth the financial condition and transactions of the Corporation, and of the Museum, and report thereon at each regular meeting, and at such other times as may be required by the Board. He shall certify to the correctness of all bills rendered for the expenditure of the money of the Corporation.

ARTICLE VIII

COMMITTEES

SECTION 1. There shall be five Committees, as follows: Finance, Building, Auditing, Pension and Executive.

SECTION 2. The Finance Committee shall consist of five members, the Auditing and Pension Committees shall each consist of three members, and the Building Committee shall consist of five members. All members of these four Committees shall be elected by ballot by the Board at the Annual Meeting, and shall hold office for one year, and until their successors are elected and qualified. In electing the members of these Committees, the Board shall designate the Chairman and Vice-Chairman by the order in which the members are named in the respective Committee; the first member named shall be Chairman, the second named the Vice-Chairman, and the third named, Second Vice-chairman, succession to the Chairmanship being in this order in the event of the absence or disability of the Chairman.



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THE LATE DAVID HENNER AT WORK IN THE STANLEY FIELD PLANT REPRODUCTION LABORATORY.

SECTION 3. The Executive Committee shall consist of the President of the Board, the Chairman of the Finance Committee, the Chairman of the Building Committee, the Chairman of the Auditing Committee, the Chairman of the Pension Committee, and three other members of the Board to be elected by ballot at the Annual Meeting.

SECTION 4. Four members shall constitute a quorum of the Executive Committee, and in all standing Committees two members shall constitute a quorum. In the event that, owing to the absence or inability of members, a quorum of the regularly elected members cannot be present at any meeting of any Committee, then the Chairman thereof, or his successor, as herein provided, may summon any members of the Board of Trustees to act in place of the absentee.

SECTION 5. The Finance Committee shall have supervision of investing the endowment and other permanent funds of the Corporation, and the care of such real estate as may become its property. It shall have authority to invest, sell, and reinvest funds, subject to the approval of the Board.

SECTION 6. The Building Committee shall have supervision of the construction, reconstruction, and extension of any and all buildings used for Museum purposes.

SECTION 7. The Executive Committee shall be called together from time to time as the Chairman may consider necessary, or as he may be requested to do by three members of the Committee, to act upon such matters affecting the administration of the Museum as cannot await consideration at the Regular Monthly Meetings of the Board of Trustees. It shall, before the beginning of each fiscal year, prepare and submit to the Board an itemized Budget, setting forth the probable receipts from all sources for the ensuing year, and make recommendations as to the expenditures which should be made for routine maintenance and fixed charges. Upon the adoption of the Budget by the Board, the expenditures as stated are authorized.

SECTION 8. The Auditing Committee shall have supervision over all accounting and bookkeeping, and full control of the financial records. It shall cause the same, once each year, or oftener, to be examined by an expert individual or firm, and shall transmit the report of such expert individual or firm to the Board at the next ensuing regular meeting after such examination shall have taken place.

SECTION 9. The Pension Committee shall determine by such means and processes as shall be established by the Board of Trustees to whom and in what amount the Pension Fund shall be distributed. These determinations or findings shall be subject to the approval of the Board of Trustees.

SECTION 10. The Chairman of each Committee shall report the acts and proceedings thereof at the next ensuing regular meeting of the Board.

SECTION 11. The President shall be ex-officio a member of all Committees and Chairman of the Executive Committee. Vacancies occurring in any Committee may be filled by ballot at any regular meeting of the Board.

ARTICLE IX

NOMINATING COMMITTEE

SECTION 1. At the November meeting of the Board each year, a Nominating Committee of three shall be chosen by lot. Said Committee shall make nominations for membership of the Finance Committee, the Building Committee, the Auditing Committee, and the Pension Committee, and for three members of the Executive Committee, from among the Trustees, to be submitted at the ensuing December meeting and voted upon at the following Annual Meeting in January.

CORPORATE MEMBERS

ARMOUR, ALLISON V.
 AYER, EDWARD E.

BLAIR, WATSON F.
 BORDEN, JOHN
 BUTLER, EDWARD B.
 BYRAM, HARRY E.

CHALMERS, W. J.
 CHATFIELD-TAYLOR, H. C.
 COLLINS, ALFRED M.
 CRANE, RICHARD T., JR.
 CUMMINGS, MRS. ROBERT F.

DAVIES, D. C.
 DAY, LEE GARNETT

EASTMAN, SIDNEY C.
 FIELD, MARSHALL III
 FIELD, STANLEY

GAGE, LYMAN J.
 GRAHAM, ERNEST R.

HARRIS, ALBERT W.
 JONES, ARTHUR B.

KEEP, CHAUNCEY
 KELLEY, WILLIAM V.
 KENNEDY, VERNON SHAW
 KUNZ, GEORGE F.

MCCORMICK, CYRUS H.
 MARKHAM, CHARLES H.
 MITCHELL, JOHN J.

PAYNE, JOHN BARTON
 PORTER, GEORGE F.
 PROBST, EDWARD

ROOSEVELT, KERMIT
 ROOSEVELT, COL. THEODORE
 RYERSON, MARTIN A.

SARGENT, HOMER E.
 SIMPSON, JAMES
 SMITH, SOLOMON A.
 SPRAGUE, ALBERT A.
 STONE, MELVILLE E.
 STRAWN, SILAS H.

WHITE, HOWARD J.
 WRIGLEY, WILLIAM, JR.

DECEASED 1925

ALDIS, OWEN F.

ELLSWORTH, JAMES W.

LIFE MEMBERS

ABBOTT, ROBERT S.
ALDIS, ARTHUR T.
ALEXANDER, WILLIAM A.
ALLERTON, ROBERT H.
AMES, JAMES C.
AMES, KNOWLTON L.
ARMOUR, A. WATSON
ARMOUR, ALLISON V.
ARMOUR, J. OGDEN
ARMOUR, LESTER
AVERY, SEWELL L.
AYER, EDWARD E.

BABCOCK, FREDERICK R.
BACON, EDWARD
 RICHARDSON, JR.
BAKER, MISS ISABELLE
BANKS, ALEXANDER F.
BARRETT, MRS. A. D.
BARRETT, ROBERT L.
BASSFORD, LOWELL C.
BENDIX, VINCENT
BILLINGS, C. K. G.
BILLINGS, DR. FRANK
BLACKSTONE, MRS. T. B.
BLAINE, MRS. EMMONS
BLAIR, HENRY A.
BLAIR, WATSON F.
BLOCK, L. E.
BLOCK, PHILIP D.
BLYTHE, HUGH
BOOTH, W. VERNON
BORDEN, JOHN
BORLAND, CHAUNCEY B.
BREWSTER, WALTER S.
BROWN, WILLIAM L.
BUCHANAN, D. W.
BUFFINGTON, EUGENE J.
BURNHAM, JOHN
BUTLER, EDWARD B.
BUTLER, JULIUS W.
BYRAM, HARRY E.

CARPENTER, AUGUSTUS A.
CARPENTER, BENJAMIN
CARPENTER, MRS. HUBBARD
CARR, ROBERT F.
CARRY, EDWARD F.
CARTON, L. A.
CHALMERS, WILLIAM J.
CHALMERS, MRS. WILLIAM J.

CLARK, EUGENE B.
CLAY, JOHN
CLOW, WILLIAM E.
CONOVER, H. BOARDMAN
COPLEY, COL. IRA CLIFF,
 (N. R.)
COWLES, ALFRED
CRAMER, CORWITH
CRAMER, E. W.
CRAMER, MRS. KATHARINE S.
CRANE, CHARLES R.
CRANE, RICHARD T., JR.
CROSSETT, EDWARD C.
CROWELL, H. P.
CUDAHY, EDWARD A., SR.
CUDAHY, JOSEPH M.
CUMMINGS, D. MARK
CUNNINGHAM, FRANK S.
CUTTEN, ARTHUR W.

DAU, J. J.
DAWES, CHARLES G.
DAY, ALBERT M.
DECKER, ALFRED
DEERING, CHARLES
DEFREES, JOSEPH H.
DELANO, FREDERIC A.
DICK, ALBERT BLAKE
DIERSSEN, FERDINAND W.
DONNELLEY, REUBEN H.
DONNELLEY, THOMAS E.
DOUGLAS, JAMES H.
DRAKE, JOHN B.
DRAKE, TRACY C.

ECKHART, B. A.
EDMUNDS, PHILIP S.

FAIR, ROBERT M.
FARNUM, HENRY W.
FARR, MISS SHIRLEY
FARWELL, ARTHUR L.
FARWELL, FRANCIS C.
FARWELL, JOHN V.
FARWELL, WALTER
FAY, C. N.
FELT, DORR E.
FENTON, HOWARD W.
FERGUSON, LOUIS A.
FERRY, MRS. ABBY FARWELL
FIELD, JOSEPH NASH II

FIELD, MARSHALL III
 FIELD, MRS. SARA CARROLL
 FIELD, STANLEY
 FINLEY, WILLIAM H.
 FLEMING, JOHN C.
 FORGAN, DAVID R.
 FORSYTH, ROBERT
 FYFFE, COLIN C. H.

GARTZ, A. F.
 GARY, MRS. JOHN W.
 GETZ, GEORGE F.
 GLESSNER, JOHN J.
 GODDARD, LEROY A.
 GOODMAN, WILLIAM O.
 GOODRICH, A. W.
 GOWING, J. PARKER
 GRAHAM, ERNEST R.
 GRISCOM, CLEMENT A.

HACK, FREDERICK C.
 HAMILL, ERNEST A.
 HARRIS, ALBERT W.
 HARRIS, NORMAN W.
 HASKELL, FREDERICK T.
 HASTINGS, SAMUEL M.
 HEYWORTH, JAMES O.
 HIBBARD, FRANK
 HILL, LOUIS W.
 HINDE, THOMAS W.
 HIPFACH, LOUIS A.
 HOPKINS, J. M.
 HOPKINS, L. J.
 HOROWITZ, L. J.
 HOYT, N. LANDON
 HUGHES, THOMAS S.
 HUGHITT, MARVIN

INSULL, SAMUEL
 INSULL, SAMUEL, JR.

JELKE, JOHN F.
 JELKE, JOHN F., JR.
 JOHNSON, MRS. ELIZABETH
 AYER
 JONES, ARTHUR B.
 JONES, THOMAS D.

KEEP, CHAUNCEY
 KELLER, THEODORE C.
 KELLEY, MRS. DAPHNE
 FIELD
 KELLEY, RUSSELL P.
 KELLEY, WILLIAM V.
 KING, CHARLES GARFIELD
 KING, FRANCIS

KING, JAMES G.
 KIRK, WALTER RADCLIFFE
 KITTLE, C. M.
 KNICKERBOCKER, CHARLES K.
 KUPPENHEIMER, LOUIS B.

LAMONT, ROBERT P.
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 LOGAN, SPENCER H.
 LORD, JOHN B.
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MAC DOWELL, CHARLES H.
 MAC VEAGH, FRANKLIN
 MARK, CLAYTON
 MARKHAM, CHARLES H.
 MARSHALL, BENJAMIN H.
 MARTIN, WILLIAM P., SR.
 MASON, WILLIAM S.
 MCCORMICK, CYRUS H.
 MCCORMICK, MRS. EDITH
 ROCKEFELLER
 MCCORMICK, HAROLD F.
 MCCORMICK, STANLEY
 MCELWEE, ROBERT H.
 MCINNERNEY, THOMAS H.
 MCKINLAY, JOHN
 MCKINLOCK, GEORGE A.
 McLAUGHLIN, FREDERIC
 McLAUGHLIN, GEORGE D.
 McLENNAN, D. R.
 McLENNAN, HUGH
 McNULTY, T. J.
 McWILLIAMS, LaFAYETTE
 MEYNE, GERHARDT F.
 MINER, W. H.
 MITCHELL, J. J.
 MOORE, EDWARD S.
 MORSE, CHARLES H., JR.
 MORTON, JOY
 MORTON, MARK
 MUNROE, CHARLES A.

NEWELL, A. B.
 NIKOLAS, G. J., SR.
 NOEL, JOSEPH R.

OAKLEY, HORACE S.
 O'BRIEN, JOHN J.
 ORMSBY, DR. OLIVER S.

ORR, ROBERT M.

PAESCH, CHARLES A.

PALMER, HONORE

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PATTEN, HENRY J.

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PATTERSON, JOSEPH M.

PAYNE, JOHN BARTON

PAYSON, GEORGE S.

PEABODY, AUGUSTUS S.

PERKINS, HERBERT F.

PICK, ALBERT

PIERCE, CHARLES I.

PIEZ, CHARLES

PIKE, CHARLES B.

PIKE, EUGENE R.

POPPENHUSEN, CONRAD H.

PORTER, FRANK W.

PORTER, GEORGE F.

PORTER, GILBERT E.

PORTER, H. H.

RAWSON, FREDERICK H.

RAYMOND, MRS. ANNA
LOUISE

REA, MRS. ROBERT L.

REVELL, ALEXANDER H.

REYNOLDS, GEORGE M.

RILEY, HARRISON B.

ROBINSON, THEODORE W.

ROBSON, MISS ALICE

RODMAN, MRS. KATHERINE
FIELD

RODMAN, THOMAS CLIFFORD

ROSENWALD, JULIUS

RUNNELLS, CLIVE

RUNNELLS, JOHN S.

RUSSELL, EDMUND A.

RUSSELL, EDWARD P.

RYERSON, MRS. CARRIE H.

RYERSON, EDWARD L.

RYERSON, MARTIN A.

SCHWEPPE, CHARLES H.

SCOTT, FRANK H.

SCOTT, GEORGE E.

SCOTT, HAROLD N.

SCOTT, JOHN W.

SHAFFER, JOHN C.

SHEDD, JOHN G.

SIMPSON, JAMES

SIMPSON, WILLIAM B.

SMITH, ALEXANDER

SMITH, SOLOMON A.

SOPER, JAMES P.

SPALDING, KEITH

SPAULDING, MRS. HOWARD
H., JR.

SPOOR, JOHN A.

SPRAGUE, ALBERT A.

STEARNS, CHARLES B., SR.

STEVENS, CHARLES A.

STEWART, ROBERT W.

STIRTON, ROBERT C.

STOREY, W. B.

STOUT, FRANK D.

STRAWN, SILAS H.

STUART, ROBERT

STUDEBAKER, CLEMENT, JR.

STURGES, GEORGE

SUNNY, B. E.

SWIFT, CHARLES H.

SWIFT, EDWARD F.

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SWIFT, HAROLD H.

SWIFT, LOUIS F.

THORNE, CHARLES H.

THORNE, ROBERT J.

TRINZ, JOSEPH

UIHLEIN, EDGAR J.

VALENTINE, LOUIS L.

VAN VETCHTEN, RALPH

VEATCH, G. L.

VILES, LAWRENCE M.

WACKER, CHARLES H.

WARNER, EZRA JOSEPH

WEBER, DAVID

WELLING, JOHN P.

WETMORE, FRANK O.

WHEELER, CHARLES P.

WHITE, F. EDSON

WHITNEY, MRS. JULIA L.

WICKWIRE, MRS.

EDWARD L.

WIEBOLDT, WILLIAM A.

WILLARD, ALONZO J.

WILLITS, WARD W.

WILSON, JOHN P., JR.

WILSON, OLIVER T.

WILSON, THOMAS E.

WILSON, WALTER H.

WINSTON, GARRARD B.

WINTER, WALLACE C.

WOOLLEY, CLARENCE M.

WRIGLEY, WILLIAM, JR.

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PEABODY, AUGUSTUS S.

PERKINS, HERBERT F.

PICK, ALBERT

PIERCE, CHARLES I.

PIEZ, CHARLES

PIKE, CHARLES B.

PIKE, EUGENE R.

POTTENHUIS, CONRAD H.

PORTER, FRANK W.

PORTER, GEORGE F.

PORTER, GILBERT E.

PORTER, H. H.

RAWSON, FREDERICK H.

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LOUISE

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RILEY, HARRISON B.

ROBINSON, THEODORE W.

ROBSON, MISS ALICE

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FIELD

RODMAN, THOMAS CLIFFORD

ROSENWALD, JULIUS

RUNNELLS, CLIVE

RUNNELLS, JOHN S.

RUSSELL, EDMUND A.

RUSSELL, EDWARD P.

RYERSON, MRS. CARRIE H.

RYERSON, EDWARD L.

RYERSON, MARTIN A.

SCHWEPPE, CHARLES H.

SCOTT, FRANK H.

SCOTT, GEORGE E.

SCOTT, HAROLD N.

SCOTT, JOHN W.

SHAFFER, JOHN C.

SHEDD, JOHN G.

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SOPER, JAMES P.

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H., JR.

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STOREY, W. B.

STOTT, FRANK D.

STRAWN, SILAS H.

STUART, ROBERT

STUDEBAKER, CLEMENT, JR.

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SWIFT, G. F., JR.

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SWIFT, LOUIS F.

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THORNE, ROBERT J.

TRINZ, JOSEPH

UIHLEIN, EDGAR J.

VALENTINE, LOUIS L.

VAN VETCHTEN, RALPH

VEATCH, G. L.

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WILSON, WALTER H.

WINSTON, GARRARD B.

WINTER, WALLACE C.

WOOLLEY, CLARENCE M.

WRIGLEY, WILLIAM, JR.

YATES, DAVID M.

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ALDIS, OWEN F.
 BANCROFT, EDGAR A.
 BARRELL, FINLEY
 BECKER, A. G.
 BRIDGE, NORMAN
 DEERING, JAMES

FERNALD, GUSTAVUS S.
 HOLLIS, WILLIAM D.
 HULBURD, CHARLES H.
 LAWSON, VICTOR F.
 PAM, MAX
 UPHAM, FREDERICK

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 BABSON, HENRY B.
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 BAIRD, WYLLYS W.
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 BAUM, MERVYN
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 BLAIR, EDWARD T.
 BLAKE, TIFFANY
 BLATCHFORD, CARTER
 BLATCHFORD, N. H., SR.
 BLOCK, EMANUEL J.
 BLOME, RUDOLPH S.
 BLUM, DAVID
 BLUM, HARRY H.
 BOAL, AYRES
 BODMAN, MRS. LUTHER
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 BONDY, BERTHOLD
 BOOMER, DR. PAUL
 BOOTH, ALFRED
 BORLAND, MRS. BRUCE
 BORN, MOSES
 BOSCH, CHARLES



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FIELD MUSEUM OF NATURAL HISTORY.

One-sixth actual size.

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 DE KOVEN
BOWES, MRS. FRANCES W.
BOYD, THOMAS M.
BOYDEN, MISS ELLEN WEBB
BOYDEN, MISS ROSALIE S.
BOYDEN, MRS.
 WILLIAM C., JR.
BOYNTON, MRS. C. T.
BOYNTON, FREDERICK P.
BRADLEY, J. DORR
BRASSERT, HERMAN A.
BRAUN, MRS. MARTHA E.
BREMNER, MRS. DAVID F.
BRENNAN, BERNARD G.
BRIDGE, GEORGE S.
BRIGHAM, MISS FLORENCE M.
BROCK, A. J.
BROOME, THORNHILL
BROSS, MRS. MASON
BROWN, A. W.
BROWN, A. WILDER
BROWN, BENJAMIN R.
BROWN, CHARLES E.
BROWN, CHRISTY
BROWN, MRS. GEORGE DEWES
BROWN, DR. EDWARD M.
BROWNE, ALDIS J.
BRUCKNER, WILLIAM T.
BRUGMAN, JOHN J.
BRUNDAGE, AVERY
BRYANT, JOHN J., JR.
BUCK, GUY R.
BUCK, NELSON LEROY
BUDD, BRITTON I.
BUDLONG, JOSEPH J.
BUFFINGTON, MRS.
 MARGARET A.
BULLOCK, CARL C.
BURLEY, CLARENCE A.
BURNHAM, MRS. E.
BURT, WILLIAM G.
BUSBY, LEONARD A.
BUSH, DAVID D.
BUSHNELL, CHARLES E.
BUTLER, MRS. HERMON B.
BUTLER, PAUL
BUTLER, RUSH C.
BUTZ, ROBERT T.
BUZZELL, EDGAR A.

CAHN, DR. ALVIN R.
CAMERON, JOHN M.
CAMPBELL, DELWIN M.

CAPPS, DR. JOSEPH A.
CARON, O. J.
CARPENTER, FREDERIC IVES
CARPENTER, GEORGE S.
CARPENTER, HUBBARD
CARPENTER, MISS
 ROSALIE S.
CARQUEVILLE, MRS. A. R.
CARR, EDMUND S.
CARR, GEORGE R.
CARR, WALTER S.
CARRY, JOSEPH C.
CARTON, ALFRED T.
CASE, ELMER G.
CASEY, MRS. JAMES J.
CHAPIN, HENRY KENT
CHAPIN, HOMER C.
CHATFIELD-TAYLOR, WAYNE
CHEEVER, MRS. ARLINE V.
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CLARK, EDWIN H.
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CLOUGH, WILLIAM H.
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COLBURN, FREDERICK S.
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COLEMAN, DR. GEORGE H.
COLEMAN, LORING W., JR.
COLEMAN, WM. OGDEN
COLIANNI, PAUL V.
COLVIN, EDWIN M.
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COX, MRS. RENSSELAER W.

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 CROMER, CLARENCE E.
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 DAVIS, DR. CARL
 DAVIS, FRED M.
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 DAVIS, JAMES C.
 DAVIS, DR. NATHAN III
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 DENNEHY, THOMAS C.
 DENNIS, CHARLES H.
 DEUTSCH, JOSEPH
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 DE VRIES, PETER
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 DIXON, HOMER L.
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 EUSTICE, ALFRED L.
 EVANS, MRS. DAVID
 EVANS, EVAN A.

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 FADER, A. L.
 FAHRNEY, EZRA C.
 FAHRNEY, E. H.
 FAITHORN, WALTER E.
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 FARR, NEWTON CAMP
 FARREL, B. J.
 FAULKNER, MISS
 ELIZABETH
 FAY, MISS AGNES M.
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 FENTRESS, CALVIN
 FERGUSON, CHARLES W.
 FERNALD, CHARLES
 FETZER, WADE
 FILEK, AUGUST
 FINN, JOSEPH M.
 FLORSHEIM, MILTON S.
 FOLEY, REV. WILLIAM M.
 FOREMAN, EDWIN G., JR.
 FOREMAN, OSCAR G.
 FORESMAN, MRS. W. COATES

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FOSTER, STEPHEN A.
FOSTER, VOLNEY
FOSTER, MRS. WILLIAM C.
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FREEDMAN, DR. I. VAL.
FREER, ARCHIBALD E.
FRENIER, A. B.
FREUND, CHARLES E.
FREUND, I. H.
FRIDSTEIN, MEYER
FRIEDLANDER, JACOB
FRIEDMAN, OSCAR J.
FRY, HENRY T.
FULLER, JUDSON M.
FULLER, LEROY W.
FURST, EDUARD A.

GABRIEL, CHARLES
GALL, HARRY T.
GALLAGHER, VINCENT G.
GALLUP, ROCKWELL
GALVIN, WM. A.
GARDNER, PAUL E.
GARDNER, ROBERT A.
GARNER, HARRY J.
GARY, FRED ELBERT
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GATZERT, AUGUST
GAYLORD, DUANE W.
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GILES, CARL C.
GILLSON, LOUIS K.
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GOLDENBERG, SIDNEY D.
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KENNETH S.
GOODROW, WILLIAM
GOODSPEED, CHARLES B.
GOODSPEED, MRS. W. F.
GOSS, CHARLES O.
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GRADLE, DR. HARRY S.
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GRANGER, ALFRED

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GREENE, CHARLES F.
GREENLEE, JAMES A.
GREGORY, STEPHEN S., JR.
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GREY, HOWARD G.
GREY, WALTER CLARK
GRIFFITH, ENOCH L.
GRIZZARD, JAMES A.
GROSS, MRS. EMILY
GROSSMAN, FRANK I.
GUENZEL, LOUIS
GULBRANSEN, AXEL G.
GULICK, JOHN H.
GUNDLACH, ERNEST T.
GUNTORTH, WALTER J.

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HADLEY, MRS. EDWIN M.
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HALE, WILLIAM B.
HAMILL, ALFRED E.
HAMILL, CHARLES H.
HAMLIN, PAUL D.
HAMMITT, MISS FRANCES M.
HANSEN, JACOB W.
HANSON, JAMES L.
HARDIN, JOHN H.
HARDING, GEORGE F.
HARDING, RICHARD T.
HARDINGE, FRANKLIN
HARPER, ALFRED C.
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HEBERLEIN, MISS
AMANDA F.
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HEINEMAN, OSCAR
HELLER, ALBERT
HELLER, EUGENE H.
HELLYER, WALTER
HELMER, FRANK A.
HENRY, OTTO
HERRICK, WALTER D.
HERRON, JAMES C.
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 HIGINBOTHAM, HARLOW N.
 HIGLEY, MRS. CHARLES W.
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 HINKLEY, JAMES O.
 HINSBERG, STANLEY K.
 HISTED, J. ROLAND
 HIXON, ROBERT
 HOGAN, ROBERT E.
 HOLDEN, EDWARD A.
 HOLLIS, HENRY L.
 HOOVER, F. E.
 HOOVER, FRANK K.
 HOOVER, H. EARL
 HOOVER, RAY P.
 HOPE, ALFRED S.
 HOPKINS, FARLEY
 HOPKINS, JOHN L.
 HORAN, DENNIS A.
 HORCHER, WILLIAM H.
 HORTON, GEORGE T.
 HOWARD, HAROLD A.
 HOWARD, WILLIS G.
 HOWELL, WILLIAM
 HOWSE, RICHARD
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MARTIN, W. B.
MARTIN, WELLS
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MATZ, MRS. RUDOLPH
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MEYER, ALBERT
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MOFFATT, MRS. ELIZABETH
MOHR, ALBERT
MOHR, WM. J.
MOLLOY, DAVID J.
MONROE, WILLIAM S.

- MOODY, MRS. WILLIAM
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 MOOS, JOSEPH B.
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 NELSON, NILS A.
 NELSON, N. J.
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 NICHOLS, MRS. GEORGE
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PLEISTOCENE FORMATION, BOLIVIA.

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 JACOBS, JULIUS
 JACOBS, NATHAN
 JACOBSON, RAPHAEL
 JACOBSON, WILLIAM
 JAEGER, EDWARD W.
 JAEGERMANN, WILLIAM A.
 JAENICKEN, FREDERICK H.
 JAMES, RAYMOND H.
 JAMES, DR. T. FRANKLIN
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JANATA, LOUIS J.
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JARCHOW, ALFRED W.
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JOHNSON, NELS E.
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JOY, JAMES A.

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JUST, MRS. CHARLES L.

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KLENHA, JOSEPH Z.

- KLINE, SOL
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 KNAPP, THOMAS
 KNIGHT, CHARLES S.
 KNIGHT, STANLEY M.
 KNODE, OLIVER M.
 KNOWLES, WILLIAM V.
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 KOCH, PAUL W.
 KOHL, PETER J.
 KOHN, EMIL
 KOHN, OSCAR
 KOHOUT, JOSEPH, JR.
 KOLLBAUM, MISS DORA H.
 KOLSTAD, ODIN T.
 KONOPA, JOHN S.
 KONSBERG, ALVIN V.
 KOONS, MRS. LAURA E.
 KOPF, CHARLES W.
 KOPF, WILLIAM P.
 KORINEK, GEORGE R.
 KORN, MOSES
 KORSHAK, MAURICE J.
 KORTEN, MRS. WILLIAM O.
 KOSTECKA, JOHN
 KOTIN, GEORGE N.
 KOVAC, STEFAN
 KOVOLOFF, DANIEL
 KOZICZYNSKI, DR. LUCIAN
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 KRACKE, ARTHUR M.
 KRAEMER, OTTO C.
 KRAFT, DR. OSCAR H.
 KRAFTHOFER, JAMES M.
 KRAJEWSKI, ADAM R.
 KRAKOW, OSCAR
 KRAMER, CLETUS F.
 KRANSTOVER, ALBERT H.
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 KRIEBEL, WARREN W.
 KROESEN, W. F.
 KRONE, PAUL
 KROPP, CHARLES A.
 KRUEGER, JOSEPH
 KRUGER, RICHARD O.
 KRUPNICK, IRA
 KUDNER, ARTHUR H.
 KUEHN, OSWALD L.
 KUGLER, BENJAMIN
 KUH, DR. SIDNEY
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 KURZ, OSCAR A.
 KUSSEL, GABRIEL
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 LACY, HERMAN C.
 LAHANN, HERMAN C.
 LAKE, EDWARD
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 LAMPERT, MRS. LYDIA
 LANE, MISS ABBY E.
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 MOSES, HOWARD
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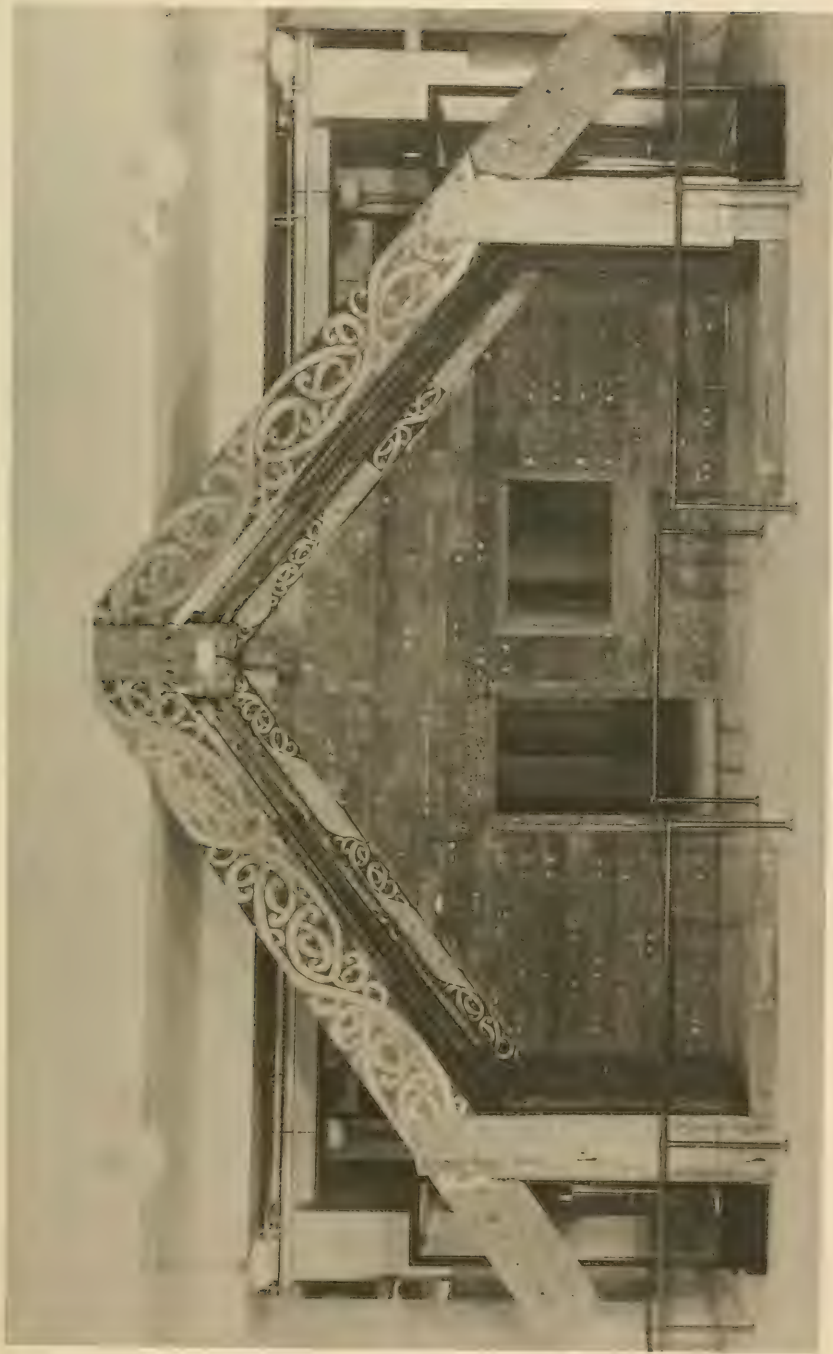
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 RANDLE, GUY D.
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 RAYHORN, CHARLES
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 REED, RUFUS M.
 REEVE, FREDERICK E.
 REGENSBURG, JAMES
 REILLY, JOHN R.



FRONT OF MAORI COUNCIL-HOUSE, NEW ZEALAND.

Twenty feet wide. Fourteen feet high.

THE TOWN

REQUA, WILLIAM B.
RICE, OTTO M.
RICHARDS, H. A.
RICHARDS, MARCUS
RICHTER, DR. H. M.
RIGALI, JOHN E.
RIPLEY, MRS. E. P.
RITTENHOUSE, MRS. MOSES F.
ROBERTS, JESSE E.
ROCKWELL, HAROLD H.
RODEN, CARL B.
RODGERS, DR. DAVID C.
ROGERS, MISS IRENE F.
ROGERSON, EDWARD J.
ROLFES, GERALD A.
ROLLO, EGBERT
RORABACH, GEORGE E.
ROSENBAUM, EDWIN S.
ROSENBAUM, MRS. EDWIN S.
ROSENFELD, MRS. MAURICE
ROSENFELD, M. J.
ROSENWALD, MISS MAE O.
ROSS, DR. COLIN K.
ROTHSCHILD, MRS. HATTIE
RUD, DR. ANTHONY
RUDOLPH, MISS BERTHA
RUETTINGER, J. G.
RUSSELL, MRS. MILDRED A.
RYAN, JOHN M.
RYAN, THOMAS C.

SACHS, MAX H.
SAGE, MRS. WILLIAM
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SAMPSON, H. J.
SCHAFFER, DR. DAVID N.
SCHAFFNER, ARTHUR B.
SCHILLER, DR. HELIODOR
SCHMIDT, ADOLPH
SCHMIDT, DR. CHARLES L.
SCHMIDT, DR. HERBERT J.
SCHMIDT, DR. OTTO L.
SCHMIDT, RICHARD E.
SCHNERING, JULIUS
SCHNERING, OTTO Y.
SCHOENBRUN, LEO
SCHRAM, HARRY S.
SCHROEDER, DR. FREDERIC H.
SCHROEDER, DR. GEORGE H.
SCHROEDER, DR. MARY G.
SCHULMAN, A. S.
SCHWAB, DR. LESLIE W.
SCHWAB, MARTIN
SCHWAGER, DR. IRVING
SCHWARTZ, G. A.

SCHWEIZER, ALBERT H.
SCOTT, DR. JAMES McDONALD
SCUDDER, J. ARNOLD
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STEIN, ADOLF
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STEIN, MRS. SIDNEY L.
STENSON, FRANK R.

STERN, FELIX
 STERN, MRS. HERBERT L.
 STERN, JACOB S.
 STERNBERG, MORRIS
 STEVENS, ERNEST
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 STEWART, WILLIAM
 STOCKTON, MRS. JOHN
 THAW
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 STODDART, CHARLES H.
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 STRONG, GORDON
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 BENJAMIN F.
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 TUFTS, PROF. JAS. H.
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 TUTHILL, RICHARD S.
 TUTTLE, CHARLES
 TUTTLE, W. F.

URHEIM, DR. O. J.
 URION, ALFRED R., JR.

VAN DELLEN, DR. R. L.

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 VAN SCHAIK, MRS.
 ETHEL R.
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 VAUGHAN, ROGER T.
 VEATCH, MISS MARIE
 VEHE, DR. K. L.
 VICKERY, MISS MABEL S.
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 VOIGT, MISS ALICE
 VOLTZ, DANIEL W.

WACHLIN, DR. EDWIN
 WAGENKNIGHT, A. R.
 WAITE, MISS MURIEL W.
 WALCOTT, CHESTER HOWE
 WALKER, BERTRAND
 WALKER, JAMES R.
 WALKER, DR. JAMES W.
 WALLACE, JOHN F.
 WALLER, MISS KATHERINE
 WALLIN, DR. THOMAS G.
 WALLNER, DR. JOHN S.
 WARD, DAVID L.
 WARREN, ALLYN D.
 WARREN, MRS. HOMER S.
 WARREN, WILLIAM G.
 WATERS, R. T.
 WATKINS, WILLIAM
 WAYNNE
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 WHITEHEAD, W. M.
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 WILEY, EDWARD N.
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 WILLIAMS, EUGENE P.
 WILLIAMS, GAAR
 WILSEY, R. E.
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 WINTER, I.
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WITKOWSKY, MISS ESTHER
WOLBACH, MURRAY
WOLF, ROBERT N.
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WOOD, JOHN H.
WOODYATT, DR. ROLLIN
TURNER
WORTHY, SIDNEY W.
WRIGHT, DR. JAMES A.

WRIGHT, MRS. WARREN W.
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WUEHRMANN, H. F.
YOUNG, GEORGE H.
ZENOS, REV. ANDREW C.
ZEUCH, DR. LUCIUS P.
ZIMMERMANN, HERBERT P.
ZUCKER, W. J.

DECEASED 1925

BIDWELL, JOSEPH E.
BROWN, WALTER B.
CHAPMAN, DR. EDWARD D.

GIESSEL, HENRY
GREY, CHARLES F.

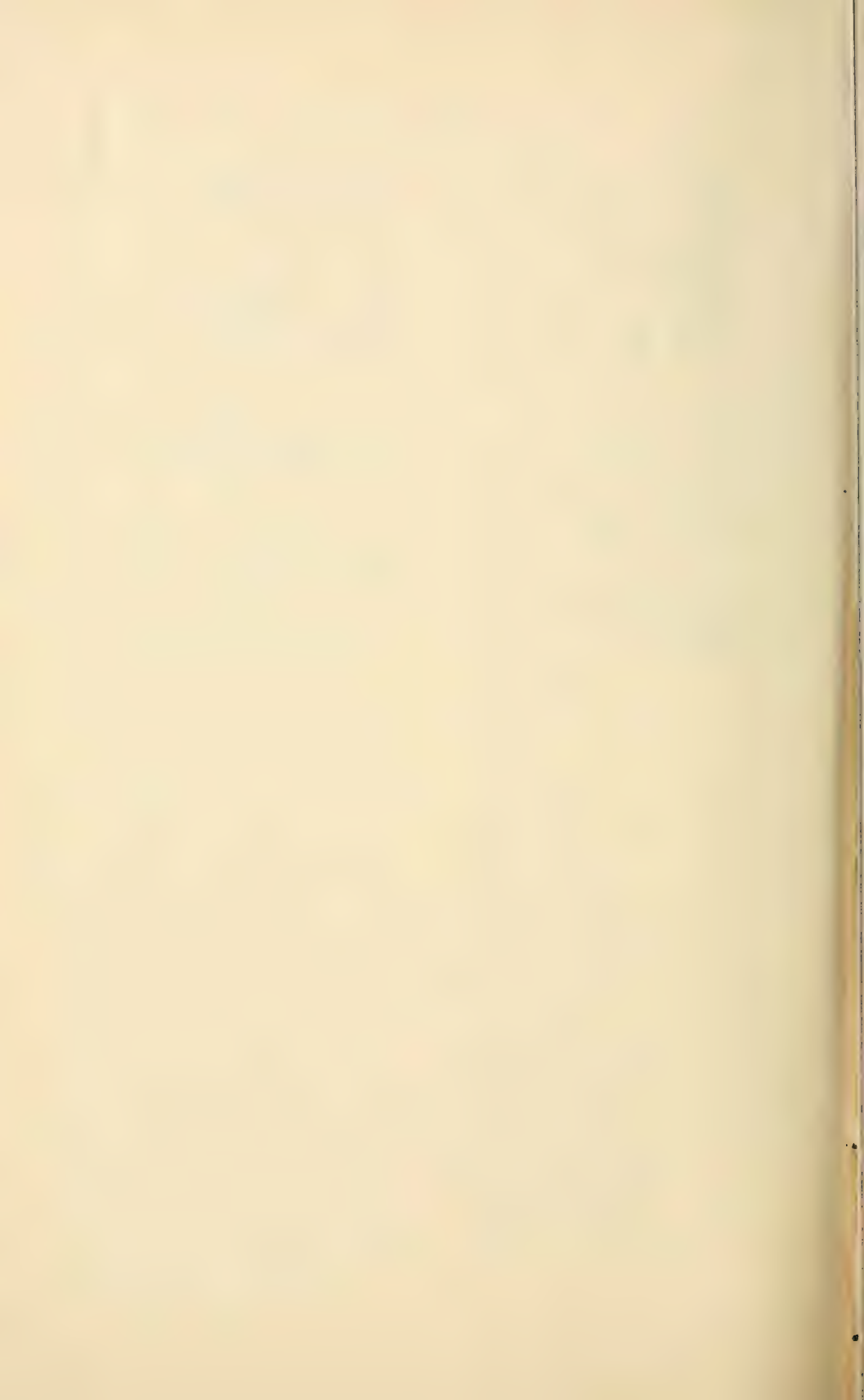
HART, HARRY
HARTER, GUSTAV A.
HESS, ARMIN E.
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HIRSCH, MRS. MATILDA
HOFFMAN, MISS CATHERINE
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VON KLEINWACHTER,
DR. LUDWIG



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